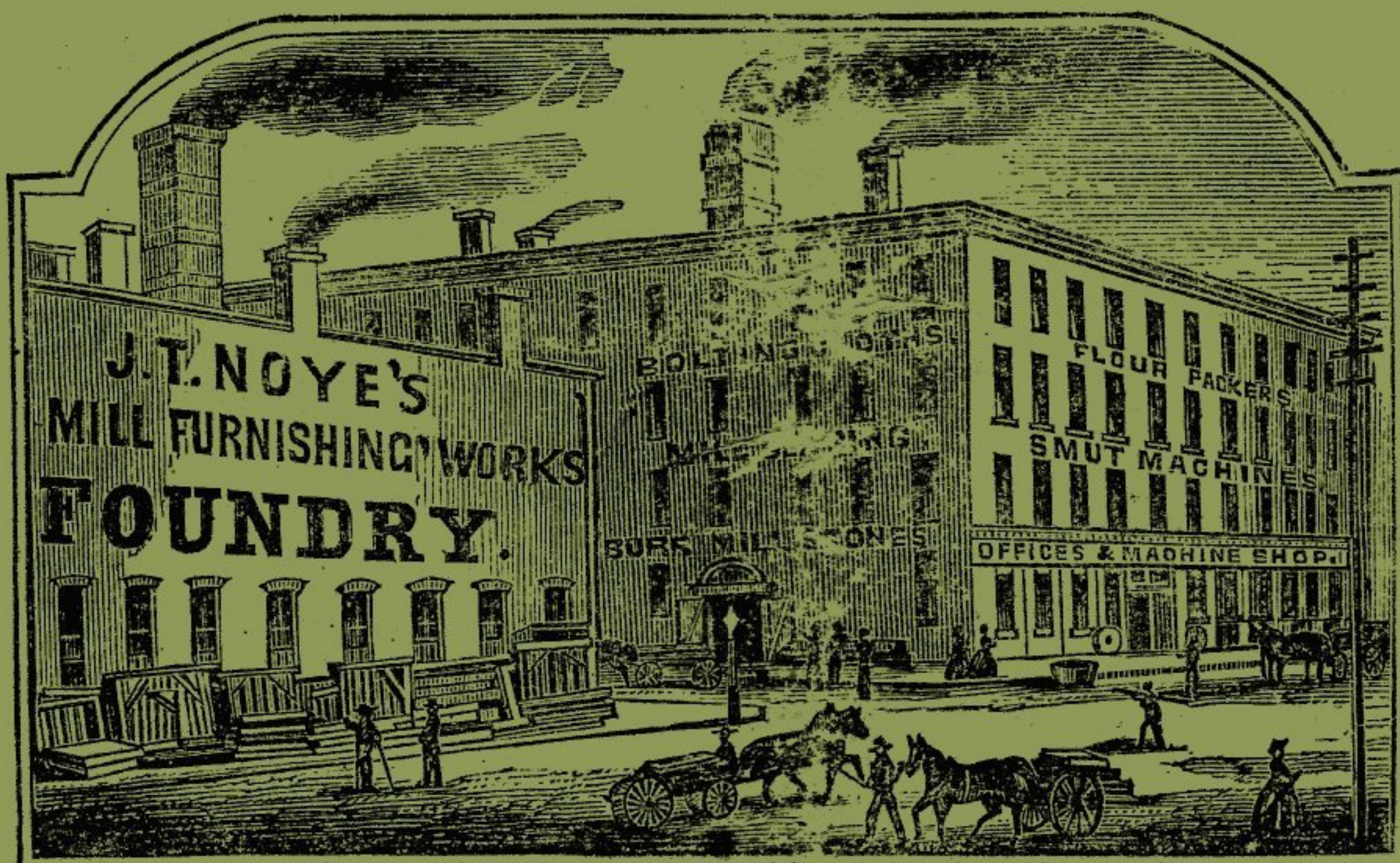


Catalogue of Patterns

FROM

NOYE'S

BUFFALO MILL FURNISHING ESTABLISHMENT.



Office and Manufactory, Washington St. Bridge, Buffalo.

CHICAGO BRANCH, 28 MARKET STREET.

MILL CASTINGS, BURR MILL STONES,
IMPROVED WATER WHEELS

Bolting Cloths and other Mill Findings,

STUCCO PLASTER AND WATER LIME.

Young, Lockwood & Co's Steam Press, Buffalo.

CHICAGO BRANCH

OF

Noye's Buffalo Mill Furnishing Establishment.



No. 28 Market Street, (Lind Block,) Chicago, Ill.

For the accommodation of my customers in Illinois, Wisconsin, Minnesota, Iowa, Missouri and Indiana, I have established a branch or depot at Chicago, where is kept constantly on hand a general assortment of Mill Gearing and Furnishings, manufactured of the best materials, embracing French Burr Mill Stones, old and new stock, of all sizes, and at as low prices as they can be procured elsewhere in the West; Noye's Improved Patent Centrifugal Feeding Grist Mill; Smut Machines and Separators of the most approved patterns; Turbine Water Wheels; Noye's Patent Flour Packers; Extra Heavy and Old Anker Bolting Cloths; Large and Portable Steam Engines; Steam Boilers; Platform Scales, &c., all of which will be sold at Buffalo prices.

WM. F. NOYE has charge of the Chicago Branch, assisted by a Millwright of superior practical skill and experience, who will prepare, at short notice, estimates, drafts, plans, &c., for Mills and Machinery.

CATALOGUE OF PATTERNS

FROM

NOYE'S

Buffalo Mill Furnishing

ESTABLISHMENT,

For the Year 1866.

IMPROVED MILL CASTINGS,

Burr Millstones,

IMPROVED WATER WHEELS

ANKER BOLTING CLOTHS,

Grain Cleaning Machinery and Mill Findings in General.

OFFICE AND FACTORY,
WASHINGTON STREET BRIDGE, BUFFALO.
And 28 Market Street, Chicago.

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EDITOR'S NOTES

This catalog is from 1866, so the original printing quality was not ideal, plus it's now in poor shape. It appears that the second half of this catalog was created from pages in older editions, and so the page order seems off. In that second section many of the pages had no page numbers, so some have been added in the same font and style as this text to identify them.

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Excerpts are allowable.

Posted in
April, 2022 by
B.D. Szafranski
Elma, NY USA

THE PATTERNS.

The Patterns embraced in this Catalogue are all expressly adapted to mill machinery, combining lightness with a greater amount of wearing surface than will be found in any other patterns having the same pitch. Additions are constantly being made.

Diameters of Wheels are given in inches and hundredths of an inch.

BEVEL WHEELS work together only as paired by braces in the margin.

NEW PATTERNS may be ordered when the desired motion can not be obtained from those in this Catalogue, observing to order the same range of pitch and face.

The following valuable Mill Furnishings are embraced among the patterns.

WATER WHEELS.—Center Vent Turbine, of the most approved construction. (See page 34.)

IRON BOLTING AND SCREEN REELS.—A very desirable article, costing little more than wood, always keeping in shape, and bolting more freely, as they present little obstruction to the falling meal. They are now in general use.

NOYE'S IMPROVED FLOUR PACKER.—Now used in most of the large mills throughout the country. (See page 30.)

NOYE'S PATENT HOLLOW SPINDLE, universal joint, for small stones. Warranted to feed under any speed.

IMPROVED COCKHEAD SPINDLE, with cast iron concave eye, cone bale and set-screw trampot.

IMPROVED SPINDLE WITH SELF-ADJUSTING DRIVER.—This is the most perfect driver in use, and gives entire satisfaction.

The Improved Set-screw Trampot is furnished with the above Spindles. Particular attention is given to making a perfect point and step.

DIRECTIONS FOR MILLWRIGHTS.

Where estimates or plans are required, it is important to have the following information. By conforming to these rules when ordering, much time will be saved.

1st. Give the location of the mill; *i. e.*, its relation to street, railway, or water; or where it is most convenient to receive grist or merchant grain.

2d. Say whether the mill is designed for custom or merchant work, and if for both, what proportion of each. Also, if intended to bolt corn meal or buckwheat. If storage elevation is required, and of what capacity.

3d. Does the location admit of a basement under the whole or part of the building? If so, how high?

4th. If the power used is water, give the fall, and number of inches opening under a given head, or the number of cubic feet per minute: also distance from surface of water in the pond or head race to the stone floor. State whether you have plenty of water, and if the supply is constant, or whether you are subject to back-water.

5th. When the mill house is already built, give the size on the ground, the height of each story from floor to floor, height from upper floor to ridge and pitch of roof; also depth of floor, timbers, and position of beams and inside posts.

6th. If the power is already in the mill, give a sketch showing the position of the driving shaft, the number of turns it makes per minute, and the direction in which it turns.

7th. In ordering spindles, give the distance from top of spindle-tree to the face of the stone.

Plans, with drawings and specifications for mills of any capacity, propelled by either steam or water, furnished when required. Contracts made for building the entire mill (exclusive of the mill house.)

Spur Core Wheels.

No. Pattern.	No. Teeth	Face.	Pitch.	Diameter.	Depth of Eye	Face of Rim.	Depth of Rim	Length of Mortice.	Thickness of Mortice.	Weight.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	lbs.
1	152	$6\frac{1}{2}$	$1\frac{3}{4}$	85^{12}	$10\frac{1}{2}$	8	$2\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{16}$	$\frac{5}{8}$
2	128	6	$1\frac{3}{4}$	71^{68}	$9\frac{3}{4}$	$7\frac{1}{2}$	$2\frac{3}{4}$	6	$\frac{1}{16}$	$\frac{5}{8}$
3	120	$6\frac{1}{2}$	$1\frac{3}{4}$	67^{20}	$10\frac{1}{2}$	$8\frac{1}{8}$	$2\frac{3}{4}$	$6\frac{1}{2}$	$\frac{1}{16}$	$\frac{5}{8}$
4	104	6	$1\frac{3}{4}$	58^{24}	$9\frac{3}{4}$	$7\frac{1}{2}$	$2\frac{3}{4}$	$6\frac{1}{8}$	$\frac{3}{4}$	
5	88	6	$1\frac{3}{4}$	49^{28}	$9\frac{1}{2}$	$7\frac{1}{2}$	$2\frac{3}{4}$	6	$\frac{1}{16}$	$\frac{5}{8}$
6	80	6	$1\frac{3}{4}$	44^{80}	$9\frac{1}{4}$	$7\frac{1}{4}$	$2\frac{3}{4}$	6	$\frac{1}{16}$	$\frac{5}{8}$
7	224	7	$1\frac{3}{4}$	125^{44}	10	$8\frac{1}{2}$	$2\frac{7}{8}$	7	$\frac{1}{16}$	$\frac{5}{8}$
8	60	6	$1\frac{3}{4}$	33^{60}	$8\frac{1}{4}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$6\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$
9	56	6	$1\frac{3}{4}$	31^{36}	$8\frac{1}{4}$	$7\frac{1}{4}$	$2\frac{1}{2}$	$6\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$
10	120	$6\frac{1}{4}$	2	76^{80}	$10\frac{1}{2}$	$7\frac{1}{2}$	$2\frac{1}{2}$	$6\frac{1}{4}$	$\frac{1}{16}$	$\frac{5}{8}$
11	112	6	$1\frac{3}{4}$	62^{72}	$9\frac{3}{4}$	$7\frac{1}{2}$	$2\frac{3}{4}$	$6\frac{1}{8}$	$\frac{1}{16}$	$\frac{5}{8}$
12	72	6	$1\frac{3}{4}$	40^{32}	$8\frac{3}{4}$	$7\frac{1}{4}$	$2\frac{5}{8}$	6	1	
13	40	6	$1\frac{3}{4}$	22^{40}		$7\frac{1}{4}$	$2\frac{1}{2}$	6	$\frac{1}{16}$	$\frac{5}{8}$
14	208	7	$1\frac{3}{4}$	116^{48}	10	$8\frac{1}{2}$	$2\frac{7}{8}$		$\frac{1}{16}$	$\frac{5}{8}$
15	176	$6\frac{1}{2}$	$1\frac{3}{4}$	98^{56}	$10\frac{1}{4}$	8	$2\frac{7}{8}$	$6\frac{1}{2}$	1	
16	80	4	$1\frac{1}{2}$	38^{40}	$6\frac{5}{8}$	$5\frac{3}{16}$	2	4	$\frac{7}{8}$	
17	96	6	$1\frac{3}{4}$	53^{76}	$9\frac{1}{4}$	$7\frac{3}{8}$	$2\frac{3}{4}$	6	1	
18	48	6	$1\frac{3}{4}$	26^{88}						

Stone Pinions.

No. Pattern.	No. Teeth	Face.	Pitch.	Diameter.	Weight.
No.	Teeth.	Inch.	Inch.	Inch.	lbs.
1	45	8	2	28 ⁸⁰	
2	41	8	1 $\frac{3}{4}$	22 ⁹⁶	
3	38	7 $\frac{1}{4}$	1 $\frac{3}{4}$	21 ²⁸	
4	30	7 $\frac{1}{4}$	1 $\frac{3}{4}$	16 ⁸⁰	
5	28	7 $\frac{1}{2}$	2	17 ⁹²	
6	27	8 $\frac{1}{4}$	1 $\frac{7}{8}$	16 ²⁰	
7	27	7 $\frac{1}{4}$	1 $\frac{3}{4}$	15 ¹²	
8	25	7 $\frac{1}{4}$	2	16	
9	25	8 $\frac{1}{4}$	1 $\frac{3}{4}$	14	
10	22	8	2	14	
11	22	7 $\frac{1}{4}$	1 $\frac{3}{4}$	12 ³²	
12	20	7 $\frac{1}{2}$	2	12 ⁸⁰	
13	18	7	1 $\frac{3}{4}$	10 ⁰⁸	
14	16	8 $\frac{1}{4}$	2 $\frac{1}{8}$	10 ⁸⁸	
15	16	7 $\frac{1}{4}$	2	10 ²⁴	
16	15	6 $\frac{1}{2}$	2 $\frac{1}{2}$	12	
17	34	7 $\frac{1}{4}$	1 $\frac{3}{4}$	19 ⁰⁴	
18	48	7 $\frac{1}{4}$	1 $\frac{3}{4}$	26 ⁸⁸	
19	35	8 $\frac{1}{4}$	1 $\frac{3}{4}$	19 ⁶⁰	
20	22	8	2 $\frac{1}{2}$	17 ⁶⁰	
21	33	7 $\frac{1}{2}$	2	21 ¹²	
22	31	7 $\frac{1}{4}$	1 $\frac{3}{4}$	17 ³⁶	
23	33	7 $\frac{1}{4}$	1 $\frac{3}{4}$	18 ⁴⁸	
24	127	7 $\frac{1}{2}$	1 $\frac{3}{4}$	71 ¹²	
25	32	7 $\frac{1}{2}$	1 $\frac{3}{4}$	17 ⁹²	
26	59	4 $\frac{1}{2}$	1 $\frac{1}{2}$	28 ³²	
27	25	4 $\frac{1}{2}$	1 $\frac{1}{2}$	12	
28	18	7 $\frac{1}{4}$	2	11 ⁵²	
29	23	8	1 $\frac{7}{8}$	13 ⁸⁰	
30	54	7 $\frac{1}{4}$	1 $\frac{3}{4}$	30 ²⁴	
31	36	7 $\frac{1}{4}$	1 $\frac{3}{4}$	20 ¹⁶	

Bevel Core Wheels.

No. Pattern.	No. Teeth	Face.	Pitch.	Diameter.	Backing.	Face of Rim.	Depth of Rim	Length of Mortice.	Thickness of Mortice.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
1	90	8	$2\frac{1}{4}$	64^{80}	$6\frac{5}{8}$	$8\frac{7}{8}$	$3\frac{1}{2}$	$7\frac{5}{8}$	$1\frac{3}{8}$	$9\frac{3}{4}$
	40	8	$2\frac{1}{4}$	28^{80}	$1\frac{3}{4}$					$9\frac{1}{4}$
2	84	$9\frac{1}{4}$	$2\frac{3}{8}$	63^{84}	$6\frac{3}{4}$	$10\frac{1}{8}$	$3\frac{1}{4}$	$8\frac{3}{4}$	$1\frac{1}{2}$	$10\frac{5}{8}$
	38	$9\frac{1}{4}$	$2\frac{3}{8}$	28^{88}	2					$10\frac{1}{8}$
3	75	6	2	48	4	$7\frac{1}{8}$	$2\frac{1}{2}$	6	$1\frac{1}{4}$	6
	26	6	2	16^{64}	$1\frac{3}{4}$					$7\frac{1}{4}$
4	61	4	$1\frac{1}{2}$	29^{28}	$3\frac{5}{8}$	5	$1\frac{3}{4}$	4	$\frac{13}{16}$	$5\frac{7}{8}$
	30	$4\frac{1}{4}$	$1\frac{1}{2}$	14^{40}	$1\frac{5}{8}$					$5\frac{1}{4}$
5	42	5	$1\frac{1}{2}$	20^{16}	$2\frac{5}{8}$	$5\frac{3}{4}$	$2\frac{3}{8}$	$4\frac{3}{4}$	$\frac{3}{4}$	$5\frac{3}{4}$
	33	5	$1\frac{1}{2}$	15^{84}	$2\frac{1}{8}$					$5\frac{7}{8}$
6	60	5	$1\frac{3}{8}$	26^{40}	$2\frac{5}{8}$	$5\frac{7}{8}$	2	$4\frac{3}{4}$	$\frac{3}{4}$	$5\frac{1}{4}$
	31	5	$1\frac{3}{8}$	13^{64}	$1\frac{1}{2}$					$5\frac{3}{4}$
7	73	3	$1\frac{1}{2}$	35^{04}	$3\frac{5}{8}$	$4\frac{1}{8}$	$1\frac{5}{8}$	3	$\frac{15}{16}$	5
	21	3	$1\frac{1}{2}$	10^{08}	1					$3\frac{7}{8}$
8	40	$3\frac{1}{2}$	$1\frac{1}{4}$	16	$2\frac{1}{4}$	$3\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{5}{8}$	$\frac{11}{16}$	$3\frac{5}{8}$
	25	$3\frac{1}{2}$	$1\frac{1}{4}$	10	$1\frac{5}{8}$					$4\frac{1}{2}$
9	56	$6\frac{3}{4}$	2	35^{84}	$4\frac{1}{4}$	$8\frac{1}{8}$	$2\frac{1}{2}$	$6\frac{3}{4}$	$1\frac{1}{8}$	$7\frac{7}{8}$
	32	$6\frac{3}{4}$	2	20^{48}	$2\frac{1}{2}$					$8\frac{3}{8}$
10	64	6	$1\frac{3}{4}$	35^{84}	$2\frac{5}{8}$	$7\frac{1}{2}$	$2\frac{1}{2}$	6	1	$6\frac{5}{8}$
	33	6	$1\frac{3}{4}$	18^{48}	$2\frac{1}{4}$					$7\frac{1}{4}$
11	44	6	$1\frac{3}{4}$	24^{64}	$2\frac{3}{4}$	$6\frac{3}{4}$	$2\frac{1}{2}$	$5\frac{3}{4}$	$\frac{15}{16}$	$4\frac{1}{4}$
	29	6	$1\frac{3}{4}$	16^{24}	$2\frac{1}{8}$					$7\frac{1}{2}$
12	44	6	2	28^{16}	3	$7\frac{1}{4}$	$2\frac{1}{4}$	6	$1\frac{1}{4}$	$6\frac{1}{4}$
	29	6	2	18^{56}	$2\frac{1}{2}$					$7\frac{1}{2}$
13	54	6	2	34^{64}	$3\frac{3}{8}$	$7\frac{1}{4}$	$2\frac{1}{2}$	6	$1\frac{1}{4}$	$6\frac{7}{8}$
	36	6	2	23^{04}	$2\frac{5}{8}$					$7\frac{1}{8}$
14	74	7	2	47^{36}	$3\frac{3}{4}$	$8\frac{1}{8}$	$2\frac{1}{2}$	7	$1\frac{1}{4}$	$6\frac{5}{8}$
	33	7	2	21^{12}	$1\frac{7}{8}$					8
15	53	$5\frac{1}{2}$	$1\frac{5}{8}$	27^{56}	$2\frac{3}{4}$	$6\frac{1}{2}$	$2\frac{1}{8}$	6	$\frac{7}{8}$	$5\frac{1}{2}$
	27	$5\frac{1}{2}$	$1\frac{5}{8}$	14^{04}	$1\frac{3}{8}$					$6\frac{3}{8}$
16	78	7	2	49^{92}	4	8	$2\frac{5}{8}$	$6\frac{3}{4}$	$1\frac{1}{4}$	$7\frac{1}{2}$
	40	$7\frac{1}{4}$	2	25^{60}	$1\frac{3}{4}$					$8\frac{1}{8}$

Bevel Core Wheels.

No. Patterh.	No. Teeth.	Face.	Pitch.	Diameter.	Baeking.	Face of Rim.	Depth of Rim.	Length of Mortice.	Thickness of Mortice.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
17 {	70	8	2	44 ⁸⁰	3 $\frac{1}{2}$	9	2 $\frac{3}{4}$	7 $\frac{3}{4}$	1 $\frac{1}{4}$	8 $\frac{1}{2}$
	52	8 $\frac{1}{8}$	2	33 ²⁸	2 $\frac{1}{16}$ ³					9 $\frac{1}{8}$
18 {	112	7	2	71 ⁶⁸	6 $\frac{1}{4}$	8 $\frac{1}{4}$	2 $\frac{3}{4}$	6 $\frac{3}{4}$	1 $\frac{1}{4}$	8 $\frac{3}{8}$
	37	7 $\frac{1}{4}$	2	23 ⁶⁸	1 $\frac{1}{4}$					8 $\frac{1}{8}$
19 {	92	7	2	58 ⁸⁸	6	7 $\frac{7}{8}$	2 $\frac{5}{8}$	6 $\frac{3}{4}$	1 $\frac{1}{4}$	8 $\frac{5}{8}$
	36	7 $\frac{1}{4}$	2	23 ⁰⁴	1 $\frac{3}{8}$					8 $\frac{1}{8}$
1 {	56	6	1 $\frac{5}{8}$	29 ¹²	4					Angle. “
	46	6	1 $\frac{5}{8}$	23 ⁹²	2 $\frac{7}{8}$					
20 {	30	2 $\frac{1}{2}$	1 $\frac{1}{4}$	12	2	3 $\frac{3}{16}$	1 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{16}$	3 $\frac{1}{8}$
	26	2 $\frac{1}{2}$	1 $\frac{1}{4}$	10 ⁴⁰	1 $\frac{3}{8}$					3 $\frac{1}{8}$
21 {	152	7	2	97 ²⁸	7 $\frac{3}{8}$	8 $\frac{1}{4}$	2 $\frac{7}{8}$	6 $\frac{3}{4}$	1 $\frac{1}{4}$	9
	36	7	2	23 ⁰⁴	1 $\frac{1}{2}$					8 $\frac{1}{2}$
22 {	46	7	2	29 ⁴⁴	2 $\frac{3}{4}$	8 $\frac{1}{4}$	2 $\frac{5}{8}$	7	1 $\frac{3}{16}$	6
	38	7	2	24 ³²	2 $\frac{7}{8}$					8 $\frac{1}{2}$
23 {	58	6	1 $\frac{3}{4}$	32 ⁴⁸	4 $\frac{1}{4}$					7 $\frac{1}{4}$
	28	6	1 $\frac{3}{4}$	15 ⁶⁸	2					7 $\frac{1}{2}$
24 {	46	4	1 $\frac{3}{8}$	20 ²⁴	2 $\frac{3}{4}$	5 $\frac{1}{8}$	1 $\frac{5}{8}$	4		4
	25	4	1 $\frac{3}{8}$	11	1 $\frac{1}{2}$					5
25 {	54	5	1 $\frac{1}{2}$	25 ⁹²						5 $\frac{1}{4}$
	24	5	1 $\frac{1}{2}$	11 ⁵²	1 $\frac{1}{4}$					5 $\frac{3}{4}$

Miter Wheels.

No. Pattern.	No. of Teeth.	Face.	Pitch.	Diameter.	Backing.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.
1	42	$2\frac{1}{4}$	$1\frac{1}{8}$	15^{12}	$1\frac{3}{4}$	3
2	38	$2\frac{1}{2}$	1	12^{16}	$2\frac{1}{8}$	$3\frac{3}{4}$
3	52	4	$1\frac{1}{2}$	24^{96}	$3\frac{1}{4}$	$5\frac{7}{8}$
4	56	$2\frac{1}{2}$	$1\frac{1}{8}$	20^{16}	$2\frac{3}{8}$	$3\frac{7}{8}$
5	60	5	$1\frac{3}{4}$	33^{60}	$3\frac{1}{2}$	$6\frac{3}{8}$
6	67	7	$2\frac{1}{4}$	48^{24}	$4\frac{5}{8}$	$8\frac{7}{8}$
7	60	3	$1\frac{1}{4}$	24	$2\frac{1}{2}$	$4\frac{3}{8}$
8	44	$2\frac{3}{4}$	$1\frac{1}{8}$	15^{84}	2	$3\frac{7}{8}$
9	30	2	1	9^{60}	$1\frac{5}{8}$	3
10	25	$1\frac{1}{2}$	$\frac{3}{4}$	6	$\frac{7}{8}$	$1\frac{5}{8}$
11	38	2	1	12^{16}	$1\frac{1}{2}$	$2\frac{7}{8}$
12	43	$2\frac{1}{2}$	$1\frac{1}{8}$	15^{48}	$1\frac{7}{8}$	$3\frac{1}{2}$
13	26	$1\frac{3}{4}$	$\frac{7}{8}$	7^{28}	$\frac{7}{8}$	2
14	54	3	$1\frac{1}{8}$	19^{44}	$2\frac{3}{8}$	$4\frac{1}{4}$
15	60	$3\frac{1}{2}$	$1\frac{3}{8}$	26^{40}	$2\frac{7}{8}$	5

Bevel Wheels.

No. Pattern.	No. of Teeth.	Face	Pitch.	Diameter.	Backing.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.
1	119	8	2	76 ¹⁶	7 $\frac{1}{4}$	9 $\frac{1}{2}$
	40	8	2	25 ⁶⁰	2 $\frac{1}{4}$	9 $\frac{3}{8}$
2	107	8	2 $\frac{1}{4}$	77 ⁰⁴	7 $\frac{1}{2}$	9 $\frac{3}{8}$
	43	8	2 $\frac{1}{4}$	30 ⁹⁶	2 $\frac{1}{2}$	9 $\frac{5}{8}$
3	70	8	2	44 ⁸⁰	5 $\frac{1}{4}$	9 $\frac{1}{2}$
	52	8	2	33 ²⁸	3 $\frac{1}{2}$	9 $\frac{3}{8}$
4	56	8	2	35 ⁸⁴	4 $\frac{1}{2}$	8 $\frac{3}{8}$
	39	8	2	24 ⁹⁶	2 $\frac{1}{2}$	8 $\frac{1}{2}$
5	106	6	1 $\frac{3}{4}$	59 ³⁶	5	7 $\frac{3}{4}$
	70	6	1 $\frac{3}{4}$	39 ²⁰	2 $\frac{3}{4}$	7 $\frac{1}{4}$
6	81	4	1 $\frac{3}{8}$	35 ⁶⁴	4 $\frac{3}{4}$	5 $\frac{1}{2}$
	27	4	1 $\frac{3}{8}$	11 ⁸⁸	1 $\frac{3}{8}$	5 $\frac{1}{8}$
7	96	3	1 $\frac{1}{8}$	34 ⁵⁶	3 $\frac{7}{8}$	4 $\frac{3}{8}$
	34	3	1 $\frac{1}{8}$	12 ²⁴	1 $\frac{1}{2}$	4 $\frac{1}{2}$
8	96	2 $\frac{3}{4}$	1 $\frac{1}{4}$	38 ⁴⁰	4	4 $\frac{1}{8}$
	23	2 $\frac{3}{4}$	1 $\frac{1}{4}$	9 ²⁰	1	3 $\frac{3}{8}$
9	60	3 $\frac{1}{2}$	1 $\frac{1}{4}$	24	3 $\frac{1}{4}$	4 $\frac{1}{8}$
	42	3 $\frac{1}{2}$	1 $\frac{1}{4}$	16 ⁸⁰	2 $\frac{1}{8}$	4 $\frac{7}{8}$
10	57	3	1 $\frac{1}{4}$	22 ⁸⁰	3	4 $\frac{3}{8}$
	40	3	1 $\frac{1}{4}$	16	2	4 $\frac{1}{4}$
11	46	3	1 $\frac{1}{4}$	18 ⁴⁰	2 $\frac{5}{8}$	3 $\frac{3}{4}$
	24	3	1 $\frac{1}{4}$	9 ⁶⁰	1 $\frac{1}{4}$	3 $\frac{3}{4}$
12	64	3	1 $\frac{1}{8}$	23 ⁰⁴	2 $\frac{7}{8}$	4 $\frac{1}{4}$
	40	3	1 $\frac{1}{8}$	14 ⁴⁰	2	4 $\frac{3}{8}$
13	46	3	1 $\frac{1}{8}$	16 ⁵⁶	2 $\frac{3}{8}$	4 $\frac{5}{8}$
	45	3	1 $\frac{1}{8}$	16 ²⁰	2 $\frac{3}{8}$	4 $\frac{3}{8}$
14	45	3 $\frac{1}{2}$	1 $\frac{1}{4}$	18	2 $\frac{3}{4}$	4 $\frac{7}{8}$
	44	3 $\frac{1}{2}$	1 $\frac{1}{4}$	17 ⁶⁰	2 $\frac{3}{8}$	4 $\frac{3}{4}$
15	61	9	2 $\frac{1}{2}$	48 ⁸⁰	5 $\frac{1}{2}$	11 $\frac{1}{4}$
	60	9	2 $\frac{1}{2}$	48	5 $\frac{3}{8}$	11
16	70	3	1 $\frac{1}{8}$	25 ²⁰	3 $\frac{1}{4}$	4 $\frac{1}{4}$
	40	3	1 $\frac{1}{8}$	14 ⁴⁰	1 $\frac{7}{8}$	4 $\frac{1}{4}$

Bevel Wheels.

No. Pattern.	No. of Teeth.	Face	Pitch.	Diameter.	Backing.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.
17	73	3	$1\frac{1}{8}$	26^{28}	$3\frac{1}{4}$	$4\frac{1}{4}$
	37	3	$1\frac{1}{8}$	13^{32}	$1\frac{5}{8}$	$4\frac{3}{8}$
18	51	4	$1\frac{3}{8}$	22^{44}	$3\frac{1}{4}$	$5\frac{3}{8}$
	40	4	$1\frac{3}{8}$	17^{60}	$2\frac{1}{2}$	$5\frac{3}{8}$
19	67	$2\frac{3}{4}$	1	21^{44}	$2\frac{5}{8}$	4
	50	$2\frac{3}{4}$	1	16	$2\frac{1}{8}$	$4\frac{1}{4}$
20	60	3	$1\frac{1}{4}$	24	$2\frac{3}{4}$	$4\frac{3}{8}$
	50	3	$1\frac{1}{4}$	20	$2\frac{3}{8}$	$4\frac{3}{8}$
21	60	5	$1\frac{3}{4}$	33^{60}	$3\frac{7}{8}$	$6\frac{1}{2}$
	54	5	$1\frac{3}{4}$	30^{24}	$3\frac{3}{8}$	$6\frac{3}{4}$
22	96	2	1	30^{72}	$3\frac{1}{4}$	$3\frac{1}{2}$
	22	2	1	7^{04}	$1\frac{1}{2}$	3
23	60	4	$1\frac{1}{2}$	28^{80}	$3\frac{5}{8}$	$5\frac{3}{8}$
	50	4	$1\frac{1}{2}$	24	3	$5\frac{3}{4}$
24	50	3	$1\frac{1}{4}$	20	$2\frac{5}{8}$	$4\frac{3}{8}$
	45	3	$1\frac{1}{4}$	18	$2\frac{3}{8}$	$4\frac{1}{2}$
25	96	$3\frac{3}{4}$	$1\frac{3}{8}$	42^{25}	$4\frac{5}{8}$	$5\frac{1}{4}$
	34	$3\frac{3}{4}$	$1\frac{3}{8}$	14^{96}	$1\frac{3}{4}$	$5\frac{1}{4}$
26	105	9	$2\frac{1}{2}$	84	$7\frac{5}{8}$	$10\frac{3}{4}$
	60	9	$2\frac{1}{2}$	48	$3\frac{3}{4}$	$11\frac{1}{4}$
27	90	$2\frac{3}{4}$	$1\frac{1}{8}$	32^{40}	$4\frac{7}{8}$	$4\frac{1}{8}$
	20	$2\frac{3}{4}$	$1\frac{1}{8}$	7^{20}	1	$3\frac{7}{8}$
28	60	3	$1\frac{1}{4}$	24	$2\frac{3}{4}$	$4\frac{1}{4}$
	53	3	$1\frac{1}{4}$	21^{20}	$2\frac{3}{8}$	$4\frac{1}{4}$
29	33	$2\frac{1}{2}$	$1\frac{1}{2}$	15^{84}	$2\frac{3}{4}$	$3\frac{7}{8}$
	26	$2\frac{1}{2}$	$1\frac{1}{2}$	12^{48}	2	$3\frac{7}{8}$
30	60	4	$1\frac{1}{2}$	28^{80}	$3\frac{3}{4}$	$5\frac{3}{8}$
	39	4	$1\frac{1}{2}$	18^{72}	$2\frac{3}{8}$	$5\frac{3}{8}$
31	44	$2\frac{3}{4}$	$1\frac{1}{8}$	15^{84}	$2\frac{1}{4}$	$3\frac{7}{8}$
	25	$2\frac{3}{4}$	$1\frac{1}{8}$	9	$1\frac{5}{16}$	4
32	60	$3\frac{1}{2}$	$1\frac{1}{4}$	24	3	$4\frac{3}{8}$
	32	$3\frac{1}{2}$	$1\frac{1}{4}$	12^{80}	$1\frac{1}{8}$	$4\frac{3}{8}$

Bevel Wheels.

No. Pattern.	No. Teeth.	Face.	Pitch.	Diameter.	Backing.	Depth of Eye.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Inch.
33	90	3	$1\frac{1}{8}$	32^{40}	$3\frac{3}{8}$	$3\frac{7}{8}$
	25	3	$1\frac{1}{8}$	9	$\frac{3}{4}$	$4\frac{1}{8}$
34	50	$2\frac{1}{2}$	1	16	$2\frac{3}{16}$	$3\frac{1}{4}$
	30	$2\frac{1}{2}$	1	9^{60}	$1\frac{1}{8}$	$3\frac{1}{4}$
35	41	$2\frac{1}{4}$	1	13^{12}	$1\frac{1}{16}$	3
	35	$2\frac{1}{4}$	1	11^{20}	$1\frac{3}{8}$	$2\frac{7}{8}$
36	58	$4\frac{1}{2}$	$1\frac{5}{8}$	30^{16}	$2\frac{5}{8}$	$5\frac{1}{4}$
	55	$4\frac{1}{2}$	$1\frac{5}{8}$	28^{60}	$2\frac{3}{8}$	$5\frac{1}{4}$
37	80	9	$2\frac{1}{4}$	37^{60}	$5\frac{5}{8}$	$9\frac{7}{8}$
	54	9	$2\frac{1}{4}$	38^{88}	$2\frac{7}{8}$	$9\frac{7}{8}$
38	72	3	$1\frac{1}{8}$	25^{92}	3	$3\frac{3}{4}$
	32	3	$1\frac{1}{8}$	11^{52}	1	$3\frac{3}{4}$
39	63	$4\frac{1}{2}$	$1\frac{5}{8}$	32^{76}	$4\frac{1}{8}$	$6\frac{1}{2}$
	56	$4\frac{1}{2}$	$1\frac{5}{8}$	29^{12}	$3\frac{5}{8}$	$6\frac{1}{2}$
40	62	6	$1\frac{3}{4}$	34^{72}	$4\frac{1}{8}$	8
	60	6	$1\frac{3}{4}$	33^{60}	4	8
41	66	$3\frac{3}{4}$	$1\frac{3}{8}$	29^{04}	$4\frac{3}{8}$	$5\frac{1}{4}$
	26	$3\frac{3}{4}$	$1\frac{3}{8}$	11^{44}	$1\frac{1}{4}$	$4\frac{7}{8}$
42	66	$4\frac{1}{2}$	$1\frac{5}{8}$	34^{32}	$4\frac{1}{2}$	$6\frac{1}{4}$
	26	$4\frac{1}{2}$	$1\frac{5}{8}$	13^{52}	$1\frac{3}{8}$	$5\frac{3}{8}$
43	46	$2\frac{1}{4}$	1	14^{72}	$2\frac{3}{8}$	$3\frac{3}{8}$
	32	$2\frac{1}{4}$	1	10^{24}	$1\frac{1}{2}$	$3\frac{1}{4}$

Spur Wheels.

No. Pattern.	No. of Teeth.	Face.	Pitch.	Diameter.	Depth of Eye	Weight.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	lbs.
1	170	$1\frac{3}{4}$	$\frac{3}{4}$	40 ⁸⁰	$3\frac{1}{2}$	
2	150	$2\frac{1}{4}$	$\frac{3}{4}$	36	4	
3	150	$1\frac{3}{4}$	$\frac{3}{4}$	36	$3\frac{1}{4}$	
4	100	2	$\frac{3}{4}$	24	$3\frac{1}{8}$	
5	85	2	$\frac{3}{4}$	20 ⁴⁰	$3\frac{3}{8}$	
6	67	2	$\frac{3}{4}$	16 ⁰⁸	$3\frac{1}{8}$	
7	63	2	$\frac{3}{4}$	15 ¹²	$3\frac{3}{8}$	
8	40	2	$\frac{3}{4}$	9 ⁶⁰	$3\frac{1}{8}$	
9	30	2	$\frac{3}{4}$	7 ²⁰	4	
10	139	2	$\frac{3}{4}$	33 ³⁶	$3\frac{7}{8}$	
11	130	2	$\frac{3}{4}$	31 ²⁰	$3\frac{1}{2}$	
12	90	3	$1\frac{1}{4}$	36	$4\frac{3}{4}$	
13	31	3	$1\frac{1}{4}$	12 ⁴⁰	$3\frac{3}{4}$	
14	100	$3\frac{1}{2}$	$1\frac{3}{8}$	44	$5\frac{3}{8}$	
15	22	$3\frac{1}{2}$	$1\frac{3}{8}$	9 ⁶⁸	$4\frac{1}{2}$	
16	15	3	$1\frac{1}{2}$	7 ²⁰	$3\frac{3}{4}$	
17	50	2	$\frac{3}{4}$	12	$3\frac{1}{8}$	
18	120	2	$\frac{3}{4}$	28 ⁸⁰	$3\frac{1}{2}$	
19	160	2	$\frac{3}{4}$	38 ⁴⁰	$3\frac{3}{4}$	
20	76	2	$\frac{3}{4}$	18 ²⁴	$3\frac{1}{4}$	
21	45	3	$1\frac{1}{4}$	18	$3\frac{3}{4}$	
22	25	2	$\frac{3}{4}$	6	$2\frac{3}{4}$	
23	18	3	$1\frac{1}{4}$	7 ²⁰	$3\frac{3}{4}$	
24	17	2	$\frac{3}{4}$	4 ⁰⁸	$2\frac{3}{4}$	
25	44	$1\frac{1}{8}$	$\frac{5}{8}$	8 ⁸⁰		
26	14	$1\frac{1}{8}$	$\frac{5}{8}$	2 ⁸⁰		
27	13	3	$1\frac{1}{4}$	5 ²⁰	$3\frac{3}{4}$	
28	64	$2\frac{1}{2}$	$1\frac{1}{8}$	23 ⁰⁴	$3\frac{5}{8}$	
29	13	$2\frac{1}{2}$	$1\frac{1}{8}$	4 ⁶⁸	$3\frac{3}{8}$	
30	42	$2\frac{1}{4}$	1	13 ⁴⁴	$3\frac{1}{4}$	

Spur Wheels.

No. Pattern.	No. of Teeth.	Face.	Pitch.	Diameter.	Depth of Eye.	Weight.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	Lbs.
31	30	$2\frac{1}{4}$	1	9^{60}	$3\frac{1}{4}$	
32	18	$2\frac{1}{4}$	1	5^{76}	3	
33	14	$3\frac{1}{2}$	$1\frac{3}{8}$	6^{16}	$4\frac{1}{4}$	
34	20	2	$\frac{3}{4}$	4^{80}	$2\frac{3}{4}$	
35	56	2	$\frac{3}{4}$	13^{44}	$2\frac{3}{4}$	
*36	137	2	$\frac{7}{8}$	38^{36}	$3\frac{1}{2}$	
*37	119	2	$\frac{7}{8}$	33^{32}	$3\frac{1}{2}$	
*38	103	2	$\frac{7}{8}$	28^{84}	$3\frac{1}{2}$	
*39	73	2	$\frac{7}{8}$	20^{44}	$3\frac{1}{4}$	
*40	86	2	$\frac{7}{8}$	24^{08}	$3\frac{1}{4}$	
*41	96	2	$\frac{7}{8}$	26^{88}	$3\frac{3}{8}$	
†42	38	2	$\frac{3}{4}$	9^{12}	$3\frac{1}{2}$	
†43	100	2	$\frac{3}{4}$	24	$2\frac{3}{8}$	
†44	14	2	$\frac{3}{4}$	3^{36}	$2\frac{1}{2}$	
†45	15	$2\frac{1}{2}$	1	4^{80}	$2\frac{1}{2}$	
46	25	3	$1\frac{1}{4}$	10	3	
47	44	2	$\frac{3}{4}$	10^{56}	$3\frac{1}{8}$	
*48	48	2	$\frac{7}{8}$	13^{44}	$3\frac{1}{4}$	
49	43	3	$1\frac{1}{4}$	17^{20}	$4\frac{1}{4}$	
50	76	3	$1\frac{1}{4}$	30^{40}	$4\frac{1}{2}$	

*Long Teeth.

†Long Teeth, Arms Ribbed.

Spur Segments & Pinions.

No. Pattern.	No. Teeth	Face.	Pitch.	Diameter.	No. of Segment.	No. of Teeth in each.	Weight.
No.	Teeth.	Inch.	Inch.	Inch.			lbs.
1	264	8	2	168 ⁹⁶	22	12	
	45	8	2	28 ⁸⁰			
2	165	8	2	105 ⁶⁰	15	11	
	45	8	2	28 ⁸⁰			
3	319	8	2 $\frac{3}{8}$	242 ⁴⁴	29	11	
	45	8	2 $\frac{3}{8}$	34 ²⁰			
4	238	7	2 $\frac{1}{4}$	171 ³⁶	17	14	
	43	7	2 $\frac{1}{4}$	30 ⁹⁶			
5	494	8	2	316 ⁶⁶	26	19	
	45	8	2	28 ⁸⁰			
*6	285	6	2 $\frac{3}{8}$	216 ⁶⁰	19	15	
	45	6	2 $\frac{3}{8}$	34 ²⁰			
7	99	6	2 $\frac{3}{8}$	75 ²⁴	9	11	
	45	6	2 $\frac{3}{8}$	34 ²⁰			
8	190	5	2 $\frac{3}{8}$	144 ⁴	19	10	
	45	5	2 $\frac{3}{8}$	34 ²⁰			
9	360	8	2 $\frac{1}{4}$	259 ²⁰	30	12	
	43	8	2 $\frac{1}{4}$	30 ⁹⁶			
10	192	8	2	122 ⁸⁸	12	16	
	45	8	2	28 ⁸⁰			
11	630	8	2	403 ²⁰	42	15	
	45	8	2	28 ⁸⁰			

* Concentric, or Teeth inside.

Spur Pinions and Racks.

No. Pattern.	No. of Teeth.	Face.	Pitch.	Diameter.	Length of Segments.	Weight.
No.	Teeth.	Inch.	Inch.	Inch.	Inch.	lbs.
1	36	1½	¾		27	
	12	1½	¾	2 ⁸⁸		
	32	1½	¾		24	
* 2	33	1¾	⅞		28 ⁸⁷	
	13	1¾	⅞	3 ⁶⁴		
* 3	29	1½	⅞		25 ³⁷	
	17	1½	⅞	4 ⁷⁶		
* 4	16	2	1	5 ¹²		
	36	2	1		36	
	24	3½	1⅜		33 ²⁵	
5	14	3½	1⅜	6 ¹⁶	Flanges.	
	20	3	1¼		25	
6	14	3	1¼	5 ⁶⁰		

* Round Teeth.

Pulley Patterns.

Diam. Inch.	Face. Inch.		Diam. Inch.	Face. Inch.	
72	Any.	Wood Pat'n.	20	3	Wood Pattern.
64	13		18		
60			18	$7\frac{1}{2}$	
60			16	$8\frac{1}{2}$	
54			16	$6\frac{1}{2}$	
48			16	$5\frac{1}{2}$	
48			16	$4\frac{1}{2}$	
48	16		15		
48	18		14		
48	20		13	$3\frac{1}{2}$	Wood Pattern.
44			12		
44			12	3	
41			11	$6\frac{1}{4}$	
40			11	$2\frac{1}{4}$	Wood.
36			10	6	
36			9	$6\frac{1}{2}$	Plate.
33			9	6	"
30			9	$2\frac{1}{8}$	"
30	$10\frac{1}{2}$		9	$1\frac{7}{8}$	
28			$8\frac{1}{2}$	$7\frac{3}{4}$	
27	7		8		
26			8	$4\frac{1}{4}$	
26			8	4	
26	$8\frac{1}{4}$		$7\frac{1}{2}$	7	
26	$6\frac{1}{2}$		7	6	
26	$5\frac{1}{2}$		7	5	
24			6	6	
24	$10\frac{1}{2}$		6	5	
24	$8\frac{1}{4}$		$5\frac{1}{2}$	$5\frac{1}{2}$	
24	$6\frac{1}{2}$		$5\frac{1}{2}$	$4\frac{1}{2}$	
24	$5\frac{1}{2}$		5	5	
24	$4\frac{1}{2}$		5	$4\frac{1}{2}$	
22			5	$2\frac{1}{4}$	
21			$4\frac{1}{2}$	$5\frac{1}{2}$	
20			$4\frac{1}{2}$	5	
20	$10\frac{1}{2}$		4	6	
20	$8\frac{1}{2}$		4	5	
20	$6\frac{1}{2}$		4	$4\frac{1}{2}$	
20	$5\frac{1}{2}$		4	4	
20	$4\frac{1}{2}$		6	4	

Hand or Fly Wheels.					
No. Pattern.	Diameter.	Diameter of Rim.	No. of Arms.		Weight.
No.	Inch	Inch.	Inch.		lbs.
1	42	2½	4	Arms 2¼ Wrought Iron.	
2	36	1½	4		
3	24	1¾	6		
4	18	1¾	6		
5	12	1¼	4		
6	9½	1	4		
7	8½	1¼	4		
8	23	1⅝	6		
9	7	¾	Plate.		
10	6	¾	4		
11	30	1½	4		
12	12	1⅜	4		
13	54	4	4		
14	96	5x5	6		

Cast Iron Conveyors.

No. Pattern.	Diameter.	
No.	Inch.	
1	12	Right hand like an Auger,
2	12	Left " contrary
3	9	Right " like an Auger,
4	9	Left " contrary,
5	6	Right " like an Auger,
6	6	Left " contrary.
		Used for conveying Grain, and in Tanneries for conveying Bark, &c. Give length over all.
1 {	48	Rope Wheel, 18 prongs.
2 {	24	Check Wheel, $2\frac{3}{4}$ face.
1 {	10	Barrel Flange.
2 {	12	" "
1 {	24	Concave Friction Pulley.
	24	Convex " "
1 {	18	Convex Friction Pulley.
2 {	24	Concave " "

FRENCH BURR MILL STONES

Manufactured from selected blocks procured from the most celebrated quarries of France, and warranted superior to the average quality usually found at Mill Stone factories.

Twenty-nine years of practical experience in manufacturing and selecting Burr Mill Stones, combined with a thorough education as a miller, is a sufficient guarantee to insure customers the best Stones that can be procured.

Extra selected Stones made on special contract from choice old or new quarry blocks.

These Stones are finished in a superior manner, being turned perfectly true, and balanced upon a principle which secures an equilibrium under a high motion.

Orders sent by mail promptly attended to.

Warranted Cast Steel Mill Picks.

The manufacturer would respectfully call the attention of the trade and consumers to his superior cast steel mill picks. They are made from the *best cast steel*, manufactured expressly for this purpose, and are carefully hardened and tempered in anthracite forges.

I have as foreman in this department one of the best steel workers in this country.

Usual sizes of furrowing and cracking picks kept constantly on hand, and any size made to order on short notice.

Picks promptly repaired and tempered, and returned by express or freight line, without unnecessary delay.

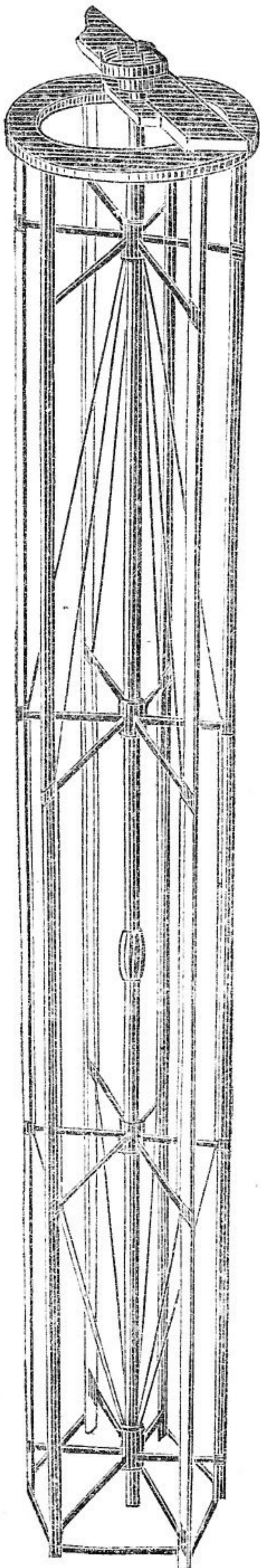
Packages containing picks sent to be repaired, should not only be plainly marked to my address, but also have upon them the names of the parties to whom they are to be returned.

TERMS OF WARRANTY.

Every mill pick bearing the brand of this establishment is warranted. If found defective in any particular, it will be made good, or a new one given in its place, (if returned within a reasonable time,) excepting when the defect arises from imperfect grinding, or when the pick has not been properly tempered, if tempered by any other than my own blacksmith.

BOLTING CLOTHS.

Single Anker, Extra Heavy do. and Dbl. Extra do.



These cloths have now been in use for several years, and have proved themselves unsurpassed for durability, evenness of texture, and freedom from all the faults of inferior manufactures.

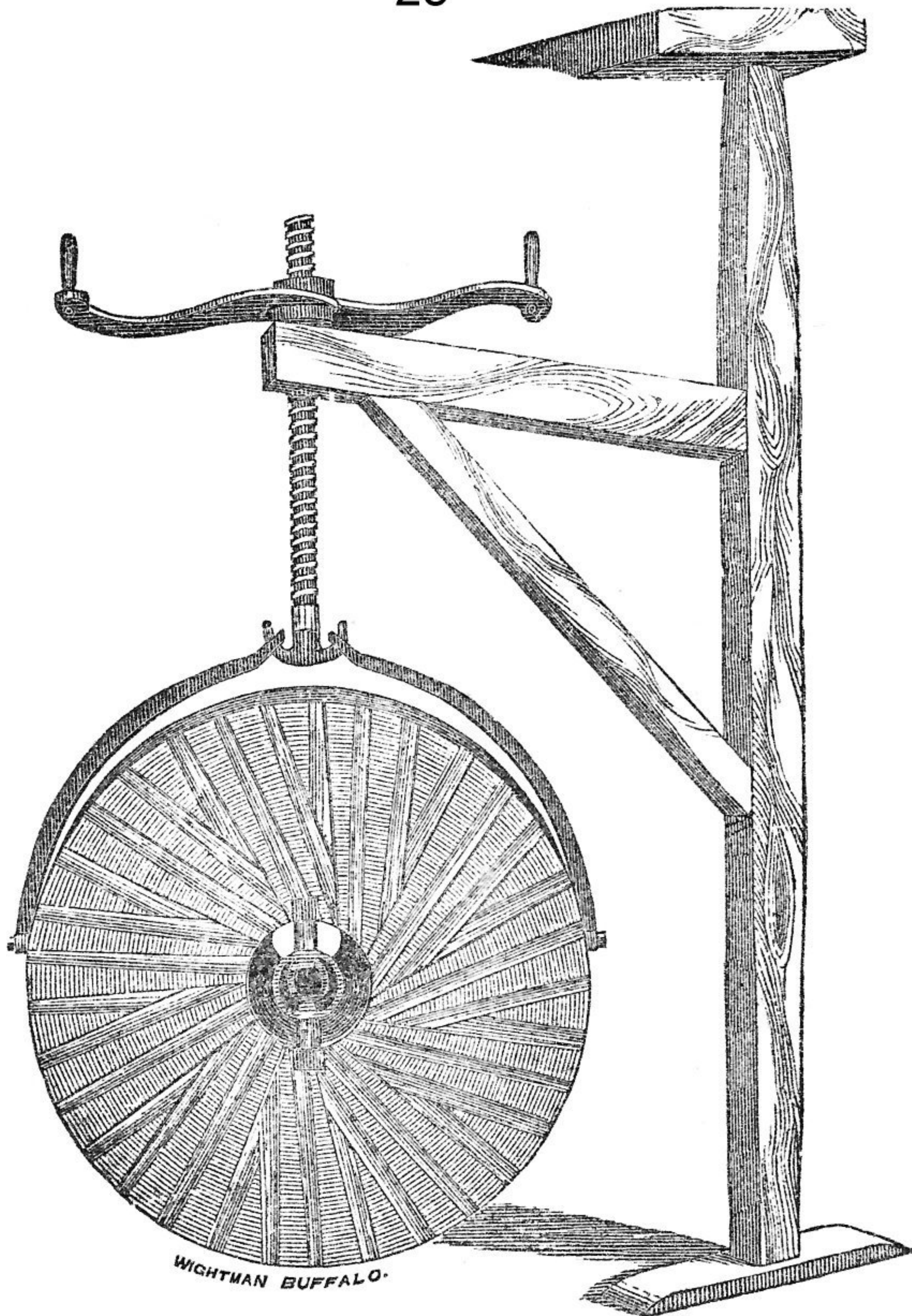
Customers sending their orders by mail, may rely upon having their wishes promptly complied with.

Cloths made up, ready to attach to the reel, on the shortest notice, and in a superior manner. In ordering cloths, it is important to give the dimensions of the reel; *i. e.* its length, diameter, number of ribs, and the distance from centre to centre of the ribs.

NOYE'S

IMPROVED IRON BOLTING REEL.

Introduced about sixteen years ago. Some hundreds, of different sizes, are manufactured and are now used by large flouring and custom mills in the United States and Canadas. They will bolt from ten to fifteen per cent. faster than the common wooden reel. The cost is about the same. They do not sway or get out of line, a defect to which wooden reels are peculiarly liable. Being made in sections, they are easily transported to any part of the country at a small cost.



HOISTING SCREW, BAIL AND PINS.

The above kept constantly on hand. Sizes adapted to stones of any diameter. Plain or brass finish, with wrought or cast iron handle. Also *Lighter Screws, Damsels, Silent Feeders, Cast Iron Shoes, &c.*

WARRANTED CAST IRON PROOF STAFFS.

The best to be had. Neatly and conveniently got up. Sizes range from three and a half to five feet in length.

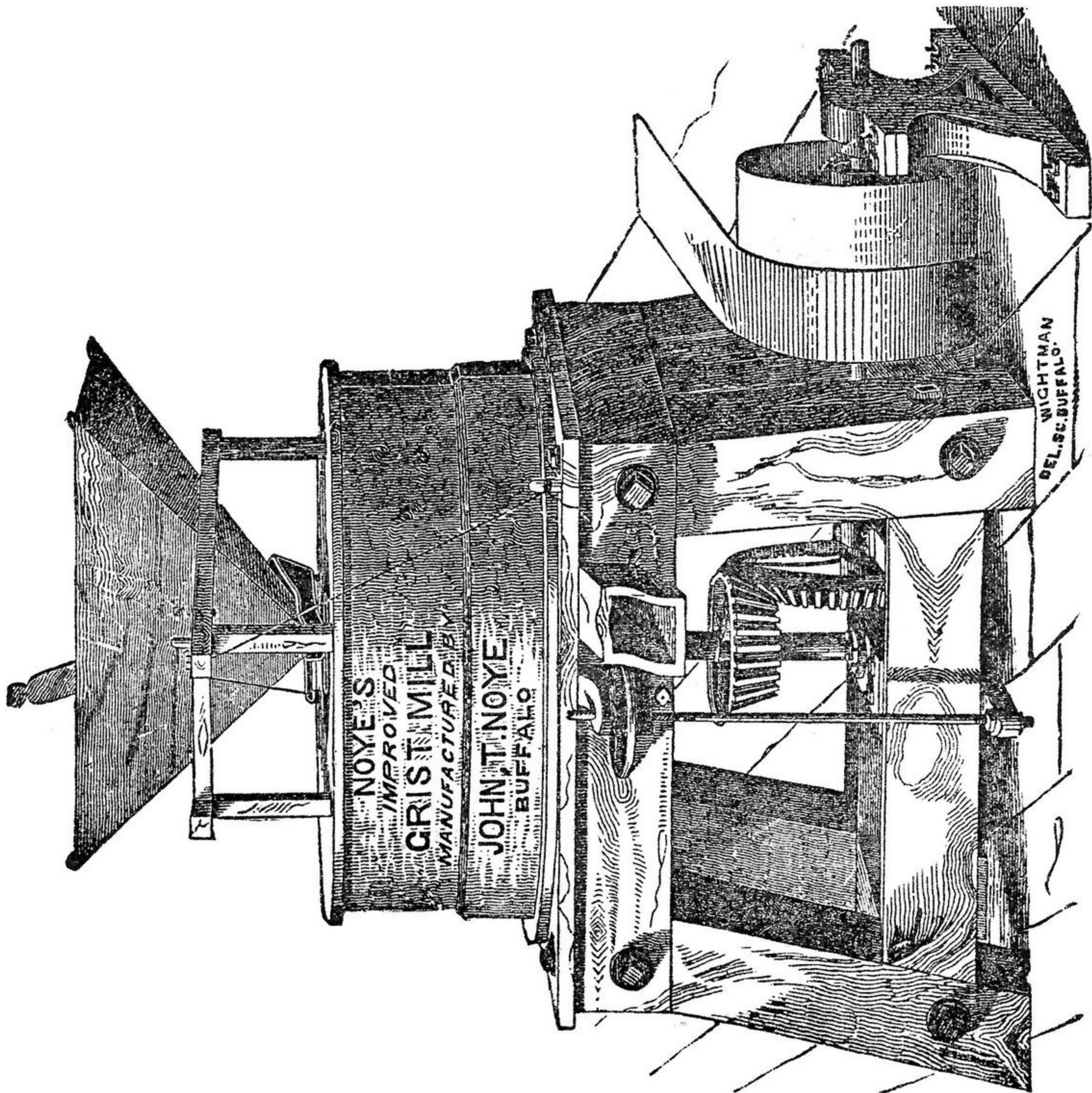
Cast Iron Spiral Conveyors.

For conveying grain or bark. Made either right or left handed, and to fit wooden shafts of four, five or six inches in diameter.

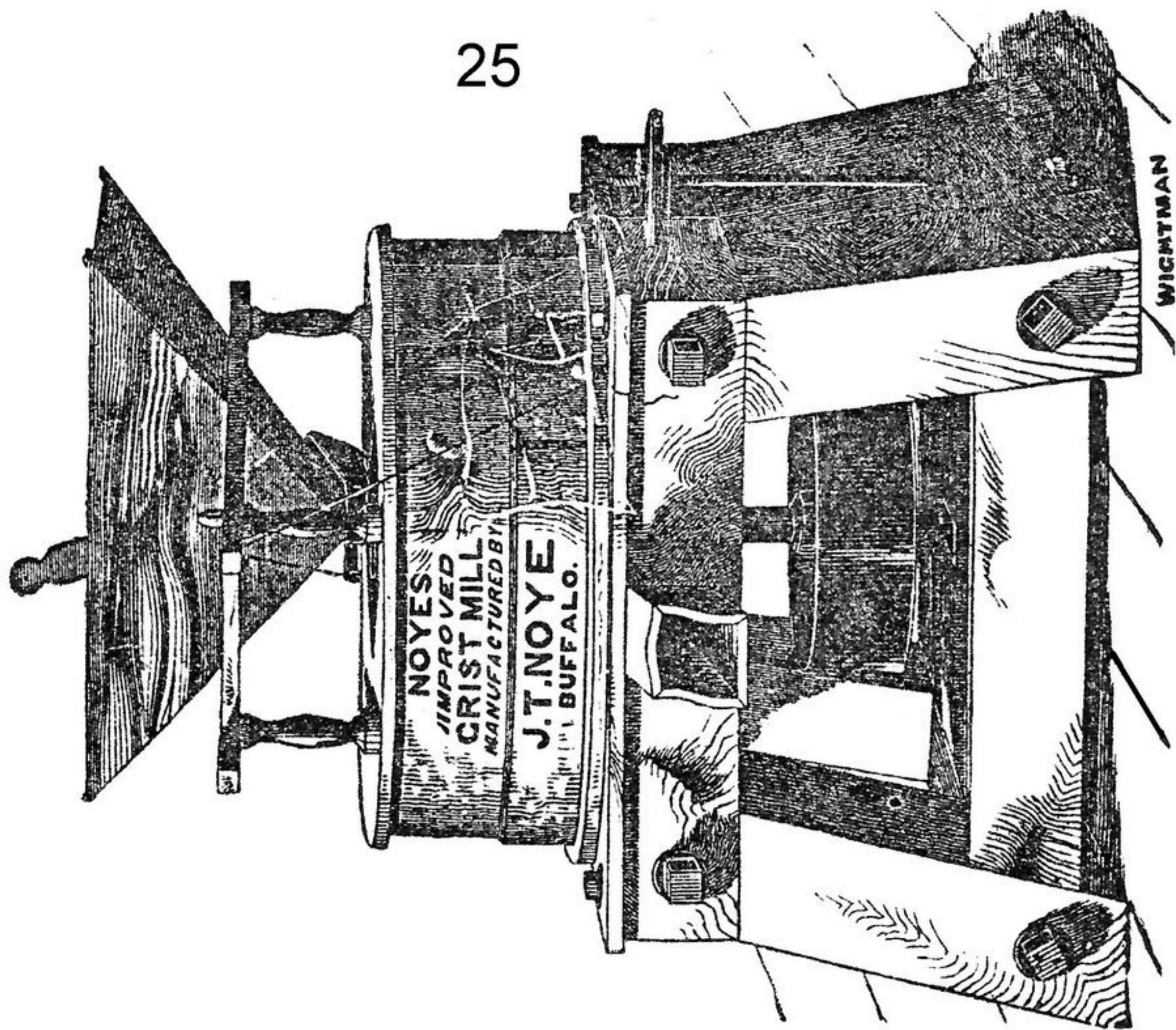
Noye's Improved Centrifugal Feeding
FLOURING AND GRIST MILL.

Patented December 1850.

These Mills are manufactured of the best materials, and in the most workmanlike manner. The stones are encased in a husk, set in a substantial portable frame, covering a superficies of some four and a half to five feet square, and generally driven by a belt and pulley, or by gearing if necessary. The grain, which is fed from a hopper and shoe common to ordinary Mills, passes, by means of a stationary tube, through the head of the spindle and falls upon the face of the bed stone, upon which it is distributed by the centrifugal force of the spindle. This is the patented principle, and subserves fully the end designed—that is, to prevent the grain, and other stuff ground, from hanging in the eye. It is only necessary to see one of these Mills under motion, to understand and appreciate the immense advantage gained by this improvement. The upper, which is the runner stone, is hung upon a gymbal or universal joint, balanced or driven by four round journals, similar to the mariner's compass. This gives the runner stone a perfect balance, without the possibility of binding on the driving points—a difficulty that attaches to all the best constructed spindles heretofore in use. It is this perfect balance that so much contributes to that evenness of grinding which characterizes these Mills.



DOUBLE GEARED MILL.



SINGLE GEARED MILL.

Crystal Palace Medal Mills.

These Mills received the highest Prize Medal awarded to Mills, at the Crystal Palace, from a committee of mechanics, distinguished alike for high moral worth, and practical scientific research.

Mills have been sold, and are now running in most of the States and Territories of the Union, and in the Canadas. So thoroughly have they been tested, that the subscriber has no hesitation in warranting them to do more work, and make better yields than any other description of Mills whatever, with a saving of from twenty-five to thirty-three per cent. of power over large stones. This gain of power has been realized in so many instances that it has become a fixed fact. My Mills likewise overcome the great difficulty attending small Mills constructed upon the lever pressure principle, whether running the upper or lower stone, or whether driven from above or below the stones. It is very apparent, when pressure upon the runner stone is substituted for heft, there is required a very great watchfulness to prevent the points from heating and welding, a circumstance which frequently happens, as is well known to millers running pressure mills. Any excess of feed induces an increased pressure upon the points, and consequent friction and waste of power ; whereas an increase of feed upon these mills effects a directly opposite result, relieving the point from friction, and thereby diminishing power. As well, too, when any foreign substance gets between the stones of pressure Mills, something must give way and jeopardize the whole Mill itself, unless the miller be at hand to afford immediate relief. With my mills, should this be the case, the stone will rise, and let it pass through without damaging the stones or iron.

The attention of those having Steam Saw Mills, Iron Furnaces, Carding Machine Power, Sugar Mill Engines, Cotton Gin Gearing, and power used for any other purpose, not constantly employed, or with a small surplus, is called especially to this Mill, as with an additional outlay of comparatively a small sum, a Grist Mill can be secured and put in operation, of sufficient capacity to do all the grinding of an entire neighborhood, at the same time doing an amount of work, and making a yield fully equal, if not superior, to that done by large stones, with a saving of one-third of the power.

With particular reference to the accommodation of the farming and planting interest in the United States and Canada, I have perfected my Double Geared Mills. Twenty and twenty-four inch Mills can be run by horse powers adapted to wheat threshers, &c., using a two, four, or six horse power, as may be most convenient. In the use of my Mills in this way, no additional machinery is necessary; apply the belt used with the thresher directly upon the pulley attached to the horizontal shaft.

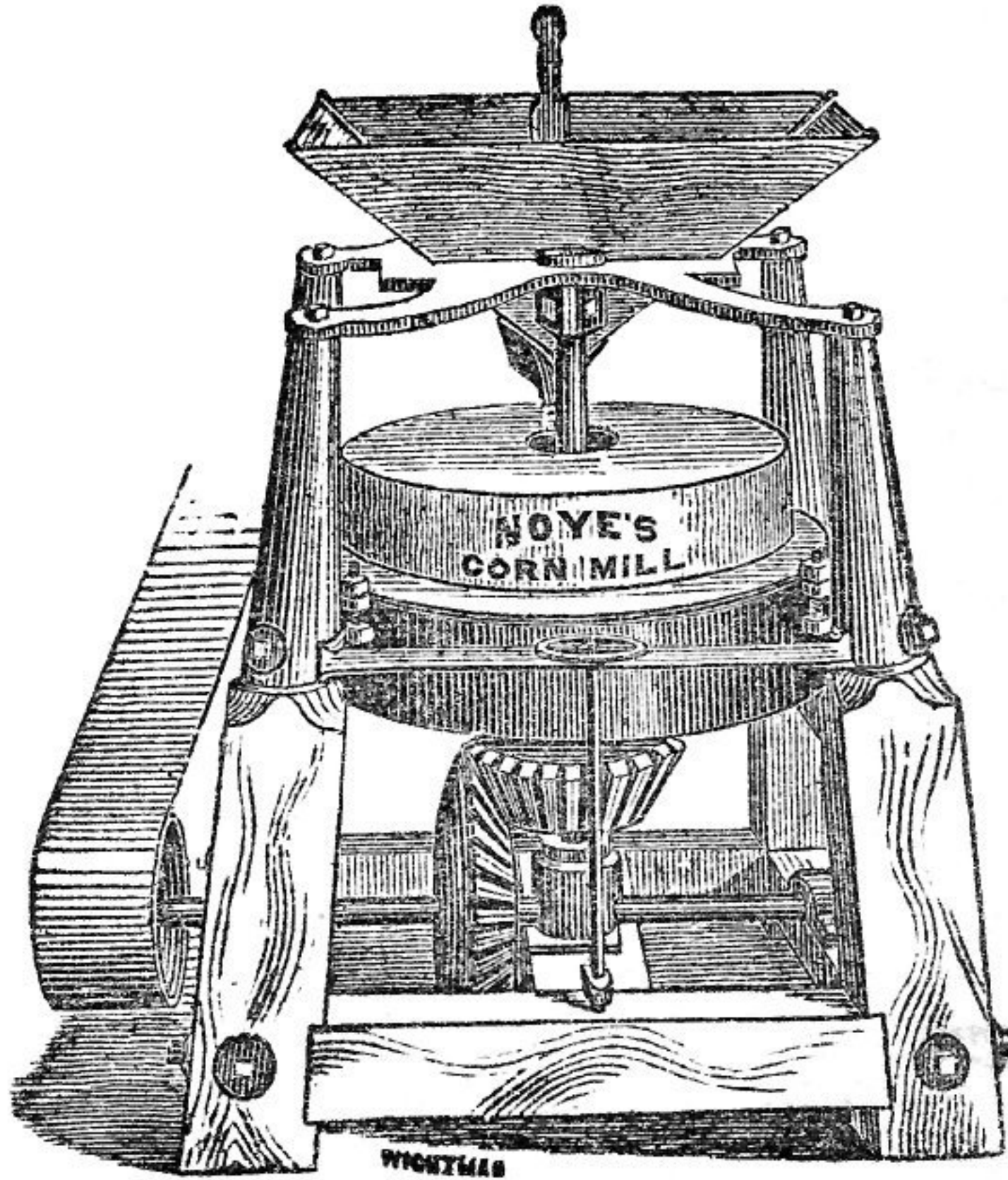
These Mills are now running in Virginia, Alabama, Ohio, Indiana, Illinois, Michigan, Wisconsin, Pennsylvania, New York, Vermont, Massachusetts, Maine, New Jersey, North Carolina, Canada, California and Oregon. Of the whole number sold, there has not been one that has not given entire satisfaction.

Sizes can be had, suitable for from two to twenty horse power, capable of grinding from five to thirty bushels per hour.

Testimonials from almost every State in the Union, and Canada, can be exhibited, showing the superiority of these Mills over other descriptions of Portable Mills.

Any information required will be furnished by mail, or by calling at his office. Mills can be forwarded to any part of the United States, from Buffalo, at small cost.

PLANTATION CORN MILL.



This mill has been prepared with great care, with a view to its adaptation to plantation use. It is manufactured in a superior manner, is simple in its construction, requiring only ordinary care in its use, made of the best materials, and for durability is not equalled by any other small mill now known. It is arranged for hand, horse, steam or water power, performing its work in a superior manner, grinding corn, wheat, feed, &c., in proportion to the power used.

SIZES.

Stone 12 inches in diameter,	-	-	-	One Horse Power.
" 16 "	"	"	- - -	One to Two Horse Power.
" 18 "	"	"	- - -	Two " "
" 20 "	"	"	- - -	Two to three " "
" 24 "	"	"	- - -	Four to six " "
" 28 "	"	"	- - -	Six to Eight " "
" 30 "	"	"	- - -	Eight to Ten " "

HARD MAPLE COGS.

Spur and Bevel Cogs of any size furnished to order.

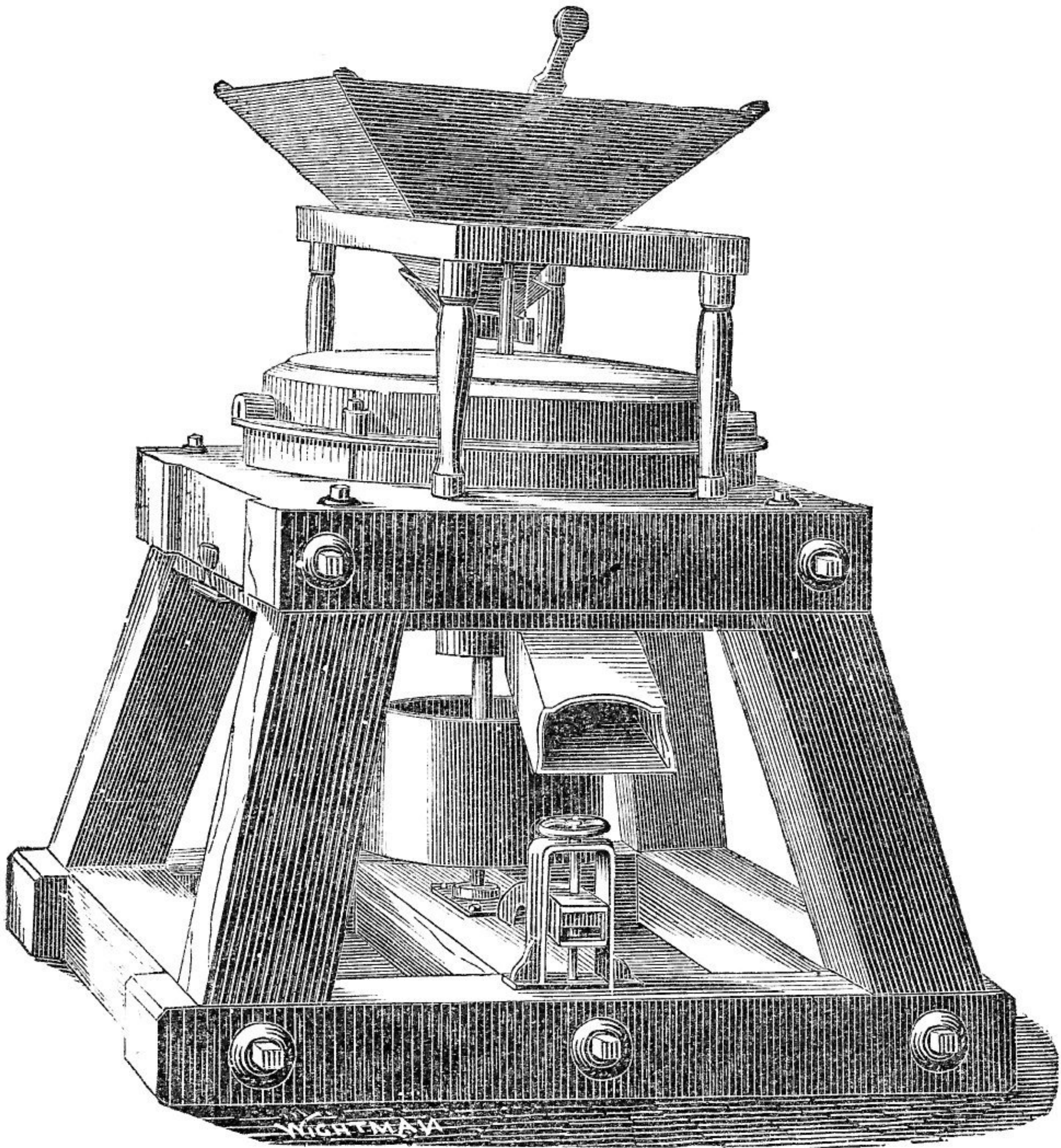
Core Wheels cogged in a superior manner, and warranted true and perfect in every particular.

With machinery arranged expressly for dressing Cogs, and having always on hand a lot of superior seasoned maple, my customers can rely on good work, and orders executed with despatch.

CONVEYOR FLIGHTS

Of all sizes on hand, made from the best seasoned hard maple.

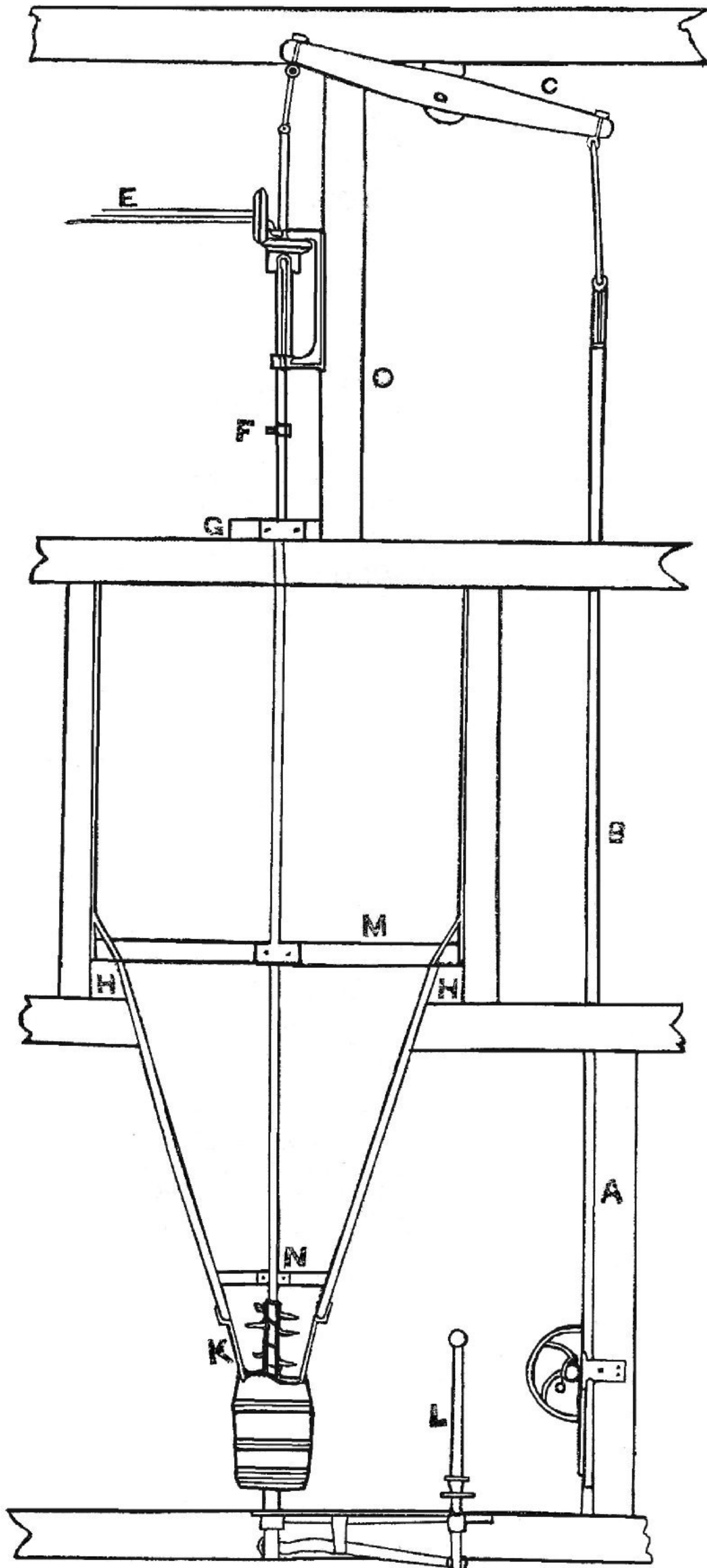
OIL BUSH MILL.



This mill has the upper stone stationary, the lower stone being the runner. This obviates the difficulties in the way of attaining a high rate of speed and rapid feeding, as there is no obstruction to the grain in passing from the hopper to the face of the stone.

The mill is exceedingly simple and durable, and can be run by ordinarily intelligent laborers.

For grinding feed and corn it has not been excelled, while the larger sizes are run to good advantage in flouring.



FLOUR PACKER.

John T. Noye's Flour Packer.

PATENTED JUNE 17, 1857. (#15, 145 - ed.)

The patentee having improved and perfected his Patent Flour Packer, now offers this superior Packer to Mill owners.

The satisfaction given by the practical use of over two hundred of these machines, in the best Flouring Mills in this country, the past five years, confirms the patentee in his opinion of its being the best and most practical machine for packing flour now in use.

The chief recommendations are the simplicity of construction, durability, and the great saving of labor, wastage of flour, and breakage of hoops, (which are entirely avoided,) also the rapidity of packing, which is performed at the rate of 30 to 60 barrels per hour, and will exceed this if required. The great economy in substituting one of these Packers in place of the old style Hand Press, is well ascertained by those who have made the exchange.

REFERENCES TO CUT.

A—Maple post 10 by $3\frac{1}{2}$ inches, to attach hand gear for lowering Packer into barrel.

B—Wood rod $2\frac{7}{8}$ inches square; on which rack is fastened to lower Packer into barrel.

C—Beam 3 inches thick, 8 inches wide at center, and 4 inches at each end.

D—Post 10 by 12 inches, to fasten iron frame to.

E—Horizontal Shaft to drive Packer. It should have about 40 revolutions a minute.

F—Collar rests on bridgetree G when Packer is lowered.

H H—Square frame laid on the floor, to fasten top of tube staves, made of timber 10 by 12 or 14 inches, with corners filled to complete the circle.

K—Cast tube, receives lower end of tube staves. The lower end of this tube sets 2 feet $9\frac{1}{2}$ inches above the floor.

L—Handle of ratchet rod, to raise and support the barrel while packing.

M—Bridgetree to support the shaft.

N—Bridgetree in tube.

Scale $\frac{1}{8}$ inch to the foot.

SMUT MACHINE & SEPARATOR.

The subscriber is now manufacturing the superior Smut Machine and Separator combined, which is represented by the cut on page 33. These machines perform the entire work of a Screen Separator and Smut Machine.

From the most thorough test of these Machines during the past two years in Custom and large Flouring Mills, and from the numerous testimonials of the most experienced millers and millwrights in the Western States, I confidently offer and recommend them to the milling public as the best machines now manufactured, for the following reasons:

FIRST.—It being a Double Separating and Scouring Machine, separates dust, chaff, smut balls and chess, from the grain before it passes to the scourer, and again separating all the dust and what light refuse grain may remain after being scoured, leaving the wheat clean, and in a condition to be manufactured into flour. Each Separator acts independent of the other, and discharges two kinds of screenings, one taken from the wheat before it is scoured, and the other after, and both perfectly cleaned from dust and chaff, leaving them in a condition to be ground into feed. The fan conducts the chaff and dust directly out of the mill. This constitutes an important item, as the machine can be put up in any part of the mill without the least inconvenience in this respect, as the machine, so far from creating dust by the action of its fan, absorbs the dust otherwise created in the mill.

SECOND.—For its *durability and simplicity*—not being liable to get out of order. The scouring part of the machine is constructed entirely of iron, upon the smooth surface principle, with large openings for the free discharge of dust and foul matter as separated from the berry, perfectly scouring and polishing the grain, is not liable to break wheat nor lose its scouring qualities, as is the case with spike or rough surface machines.

THIRD.—For its perfect safety as regards fire by friction. The bridge truss being of cast iron, having only one bearing besides the step and point, which are cast steel, and that working in a babbit metal box, secure from dust, is never known to heat, no matter how long or constantly used.

These, with other considerations not here named, render this machine most desirable in a mill, and one that millers cannot well do without. It must *inevitably supersede all other* machines of this nature.

No.	Extreme Height.	Height from where Wheat enters to Floor.	Size on Floor.	Motion per min.	Diameter of Pulley.	Height from Floor to centre of Pulley.	Capacity per hour.
1	6 ft. 6 in.	4 ft. 6 in.	2 ft. square.	700	7 & 8½ in. 4 in. face.	1 ft. 2 in.	20 to 30 bush.
2	6 ft. 10 in.	5 ft.	2 ft. 6 in. sq.	625	9 in. 6 in. face.	1 ft. 3 in.	50 to 75 bush.
3	8 ft.	5 ft. 9 in.	3 ft. square.	550	15½ in. 7 in. face.	1 ft. 4 in.	100 to 125 bush.

Where there are no screens, I attach a riddle, with coarse and fine seive, for the purpose of throwing off stones, pieces of iron, sticks, straws, &c. making a complete cleaning apparatus for a custom mill without a screen.

In ordering be particular to give full instructions which way they are wanted to run—with or against the sun. These machines are warranted to give entire satisfaction when put up according to directions, which are always sent with each machine.

DIRECTIONS FOR RUNNING AND SETTING UP NOYE'S IMPROVED SMUT MACHINE AND SEPARATOR.

- A. Wheat Received.
- B. do Discharged.
- C. Driving Pulley.
- D. Pulley on Riddle Shaft.
- E. Fan Box.
- F. No. 1 Suction.

Directions for Setting up.

Secure the machine firmly in a level position; Put the fan case on over the shaft, open side down, and place the spout over the short post as marked; Screw the fans to the shaft by the screw bolts in such a position as to revolve freely from the case; Place the separator over the fan, the long leg on the side of the discharge spout; Screw the brackets on which support the riddle shaft, and place the riddle in its position as shown in the cut.

A clear open space should be left of at least six inches on each side and in height at the bottom of spout B. in order to afford a free passage of air, (this is very important.) If the discharge spout to the fan is extended, have it the same size internally. In turning an angle. increase the size one third.

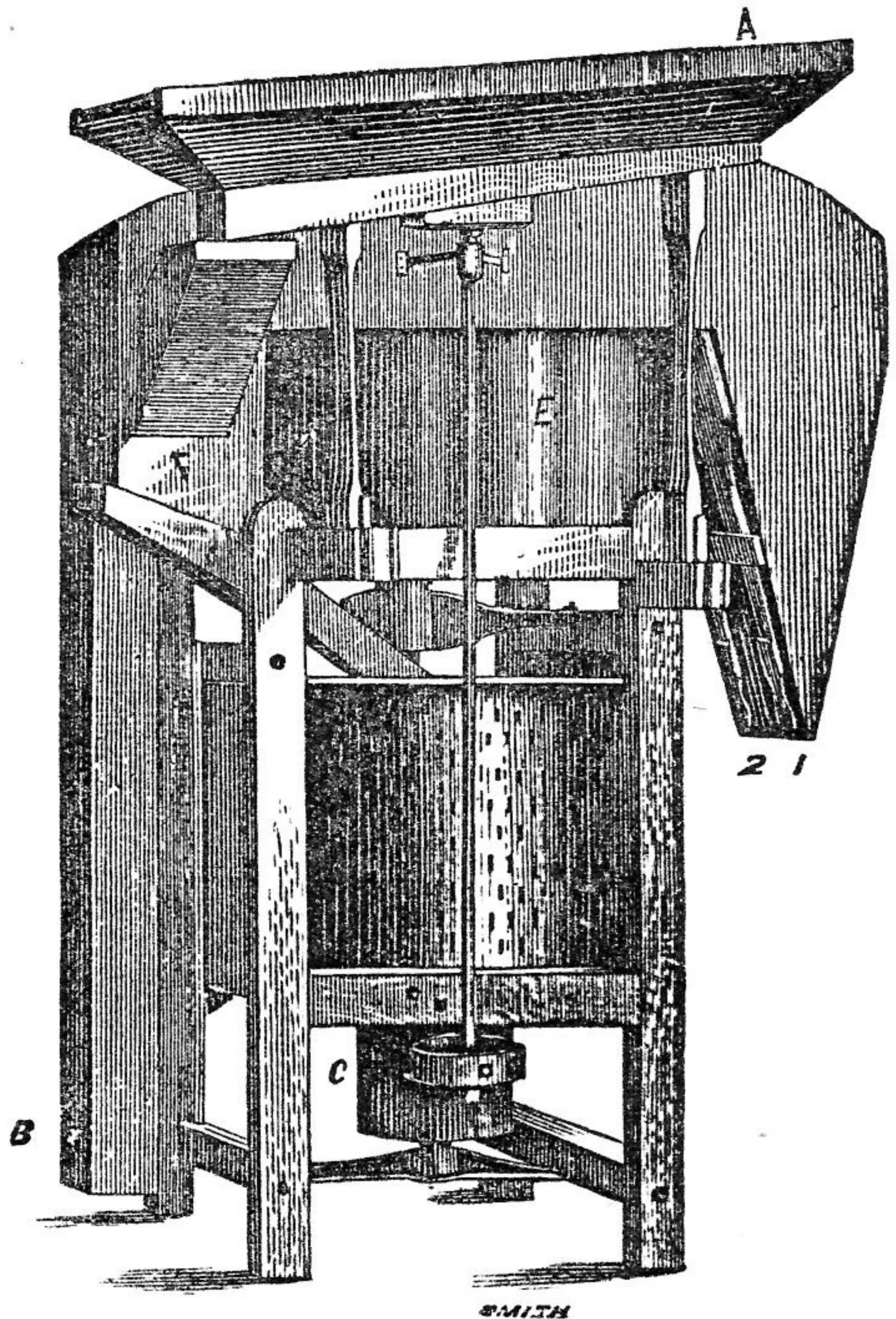
The driving pulley should have _____ revolutions per minute _____ the sun.

The belt should be kept taut to prevent slipping.

Slide No. 1 draws chaff and light offal from the wheat before entering the smutter. Slide No. 2 separates from the wheat after smutting.

Draw the slides down until light or damaged wheat is discharged at the valves or such separations as may be devised.

Use good oil for the step, and tallow for the upper journal.



IMPROVED CENTER VENT TURBINE WATER WHEEL.

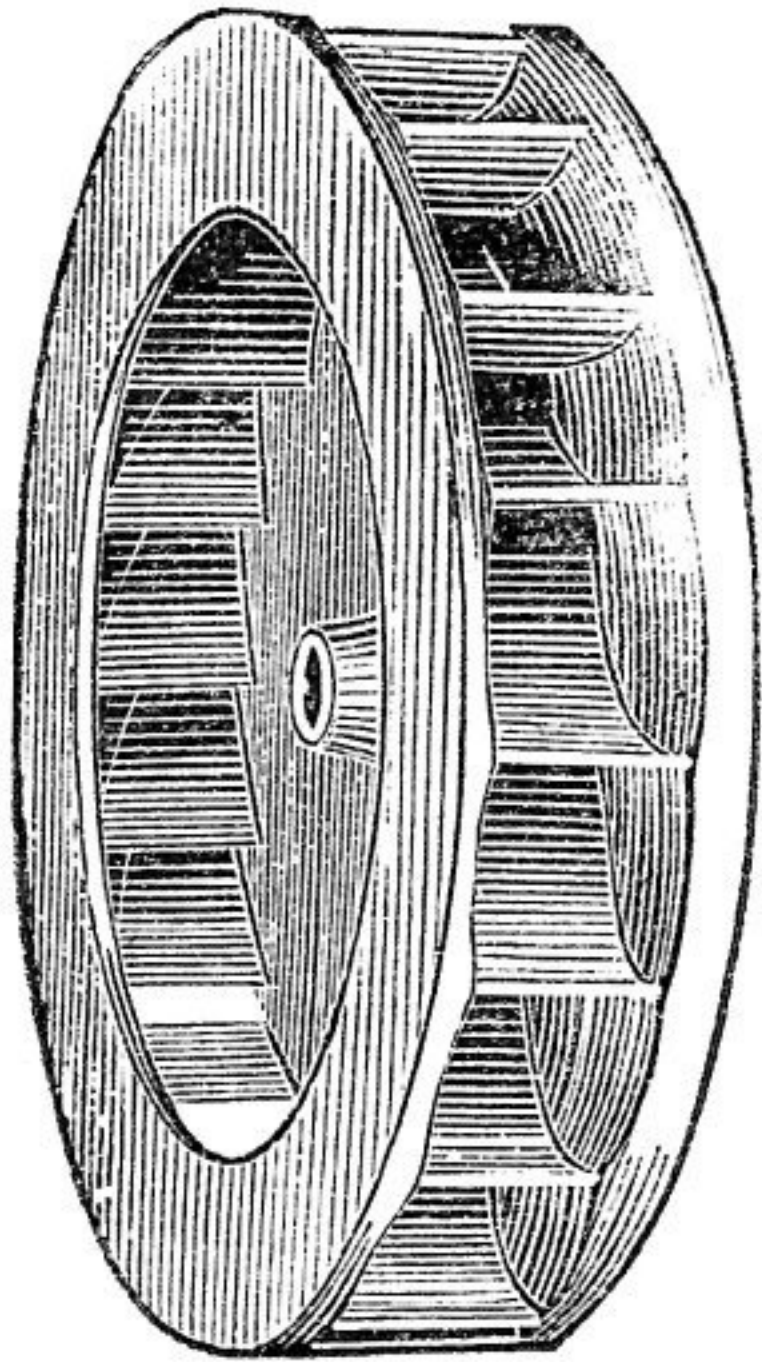


Fig. 1.

TURBINE WHEEL.

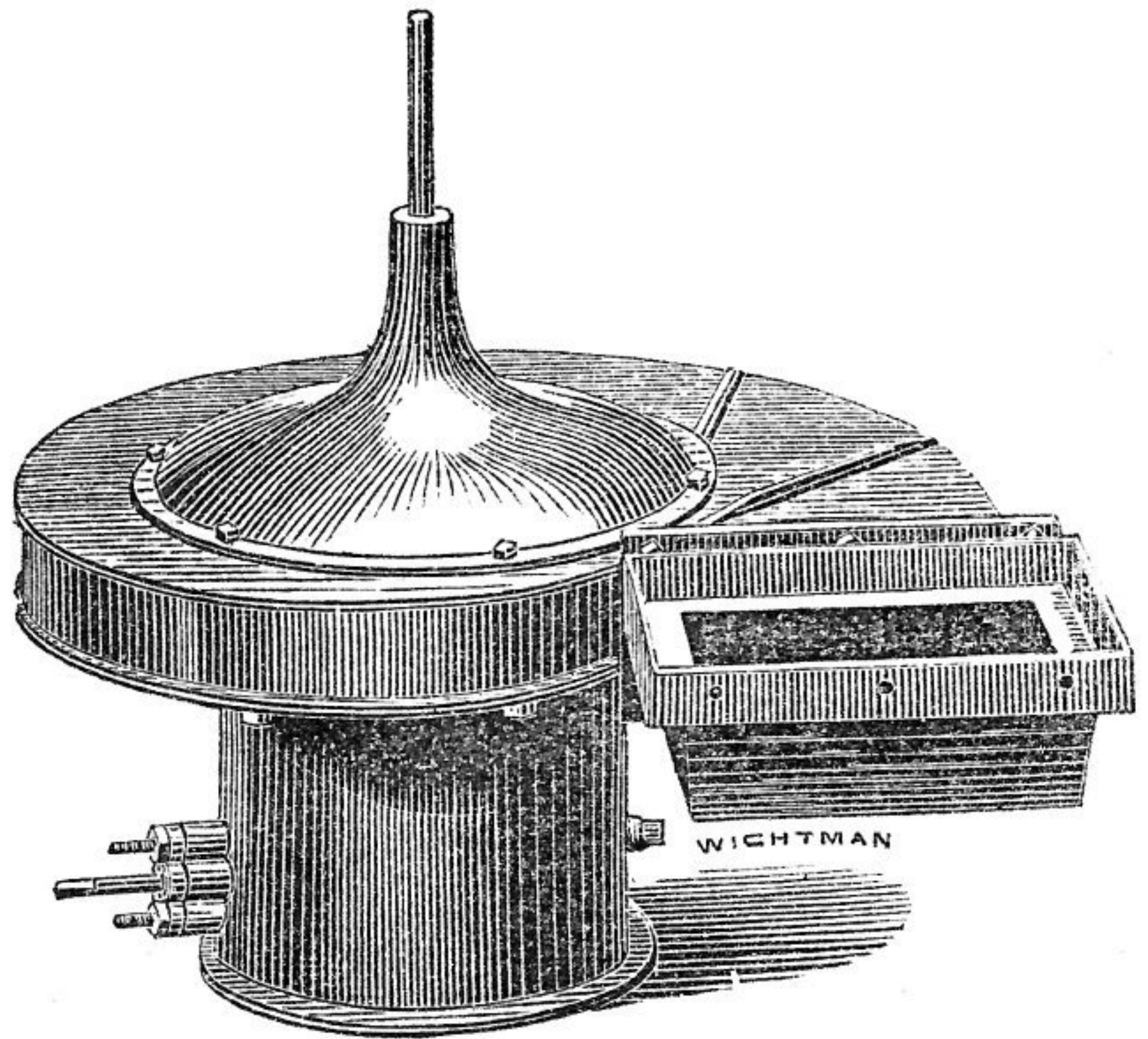


Fig. 2.

DRAFT-BOX ATTACHMENT.

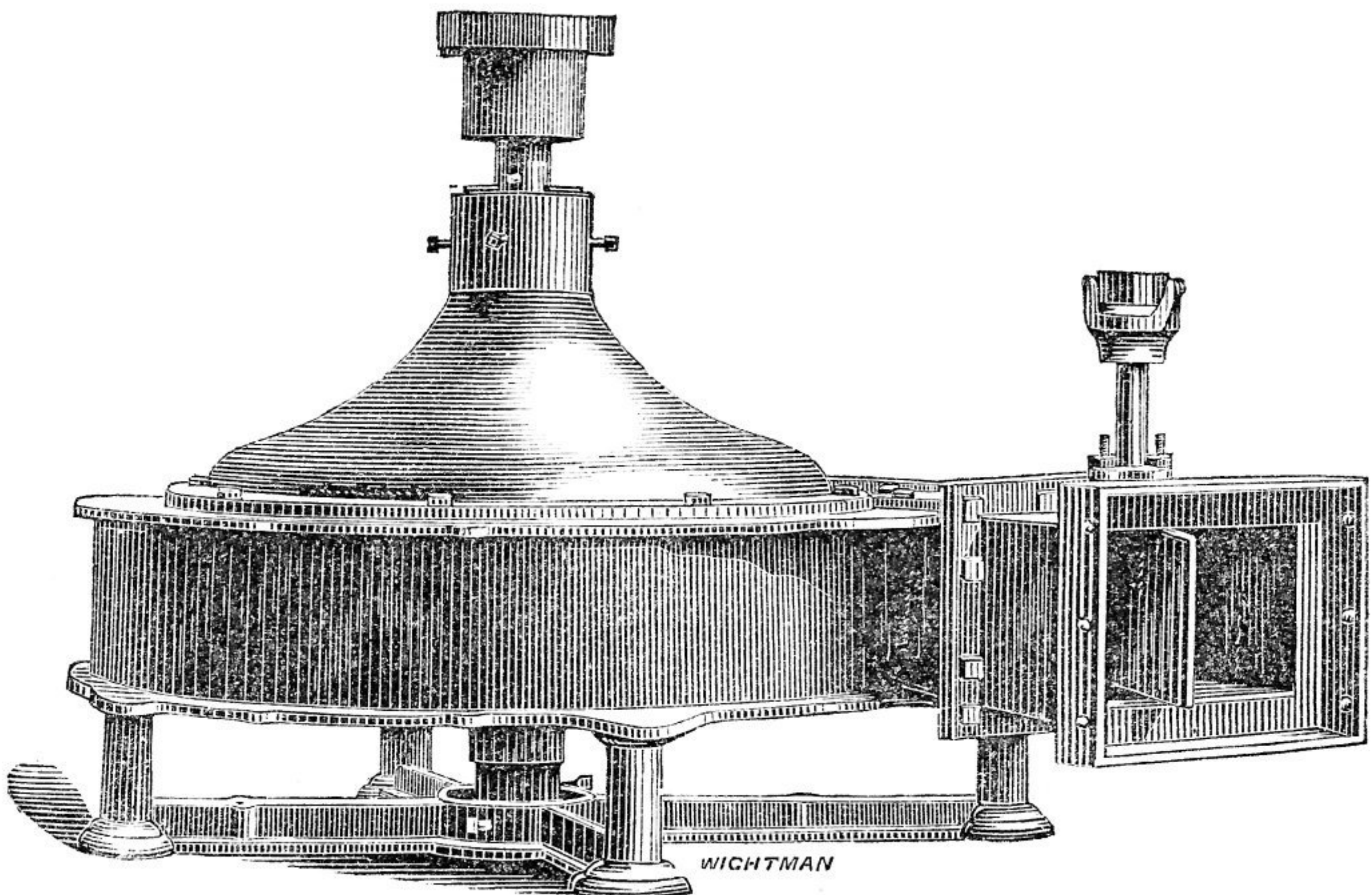


Fig. 3.

SCROLL, WITH CANOPY, MOUTH PIECE AND BRIDGETREE.

Improved Turbine Water Wheel.

To all persons interested in water power this wheel must recommend itself as pre-eminently *the* wheel, and for the following reasons:

- 1st. On account of its economy in the use of water.
- 2d. Its steadiness and uniformity of motion.
- 3d. The large percentage of power which it yields.
- 4th. Its cheapness in price, and its simplicity and durability of construction.

It costs less than any other description of wheel giving an equal amount of power.

It runs as well under water as out, and realizes every inch of head.

It is not affected by back water, or frost or ice.

The buckets are made of steel or wrought iron plates, properly shaped and cast into the rim. The wheel, which is made entirely of iron, runs in a scroll, made either of iron or wood. When made of wood, drawings and specifications of it are furnished, from which any good millwright can work. This wheel has now been in use about five years, and is rapidly taking the place of the old overshot and breast wheels. In the West particularly it has been thoroughly tested, often under great disadvantages, and has given entire satisfaction.

Fig. 1, represents the wheel alone. When desired the wheel is furnished thus, independent of the scroll, where it is the intention to build a wooden scroll. The price of the wheel in this shape, includes eight feet of shafting, gate slides, step and water-tight ring, with a drawing of the scroll.

Fig. 2, is in all respects the same as fig. 3, with the addition of a draft-box or suction tube beneath, with a view to locating the wheel between the two levels of the fall.

This plan of setting the wheel is adapted to high heads and falls. Its peculiar advantages being the dispensing with long shafts, and its accessibility in times of freshet; as every part of the wheel can be examined without going into the pit below.

The wheel located in this position receives its power from the weight or gravity of the water above, and from the draft or suction below, thus economizing the whole power of the fall.

Fig. 3, represents the canopy scroll, with a bridge-tree underneath, and a mouth-piece with gate attached. This scroll differs from the ordinary scroll in these three particulars: *i. e.* that it has a canopy with a bush box, a bridge-tree, and a mouth-piece, or gate box.

Regarding its operation I take pleasure in referring to the following millers and mill owners having the wheel in use. Several of these have so far expressed their approbation as to favor me with their orders a second time.

	No. Wheels.
John W. Egbert, Milford Indiana,	2
J. F. Scribner, Janesville, Wis.....	2
W. Watson, Lowell, Illinois,	1
William St. John, Central City, Iowa, ...	1
Brignon Brothers, Northville, Ill.	1
R. E. Trowbridge, Birmingham, Mich....	4
Alexander Mitchel, York, C. W.	1
F. L. Clark, Marshall, Mich.	1
John R. Hodson, Illinois.	1
Newman Bro's, Akron, N. Y.	1
Crenshaw & Hopkins, Marengo, Ill.	2
H. P. Turner, Port Washington, Wis. ...	2
J. P. Schneider, Aurora, Ill.	3
James B. Martyn, Belvidere, Ill.	1
Jacobs & Pettite, Mt. Carroll, Ill.	1
John Band, Thorold, C. W.	1
William Bell & Co., Galena, Ill.	4
R. H. Heywood, Venice, Ohio.	1
Ludlow & Bingham, Monroe, Wis.	2
Merrihew, Morrill & Co., Sauk City, Wis.	1
Hawk & Hyde, Joliet, Ill.	1
N. B. Brown, Cedar Rapids, Iowa,	1
J. M. Leish, Three Oaks, Mich.	1
J. P. Hutton, Summerville, Mich.	2
Jarard & Bro., Glenwood, Iowa,	1
Alanson Stevens, Hornellsville, N. Y. ...	2
S. Gilbert, Crooked Creek, Indiana,	5
Forestville Oil Co., Forestville, N. Y.	1
E. S. Cook, East Pembroke, N. Y.	1
John Stough, Ponca, C. T.	1
J. B. Peyton, Gallatin, Tenn.	2
Bartlett Bro's, Willink, N. Y.	1
South Clear Creek Mining Co., N. T.	1
J. & W. Palmer, Elkhart, Ind.	1
North Western Flax Co., Aroma, Ill.	1
E. R. Millard, Plainfield, Ill.	1
O'Brine, Butler & Co., Monroeville, O. ...	1
J. Beard, Grays Ranch, C. T.	1
Geo. Hipsher, Lancaster, N. Y.	1
B. M. Minch, Paoli, Wis.	1
J. L. Brower, Fox Lake, Wis.	1
R. Wilcox, Girard, Pa.	3
H. & L. B. Martin, Mishawaka, Ind.	1
A. Ludlow, Monroe, Wis.	1
G. Truesdale, Chicago, Ill.	1

	No. Wheels.
J. H. Meyers, Cawaskum, Wis.	1
J. D. & J. A. Miller, Belvidere, Ill.	1
T. A. Clark, North East, Pa.	1
Beardsley & Bro., Aroma, Ill.	1
Rider & Bullock, Lowell, Ill.	2
Bacon & Son, Belvidere, Ill.	1
L. Duelle, Northwood, Iowa,	1
Colton & Co., Qolorado City, C. T.	1
William Siegler, Lowell Hill, Ill.	2
S. L. Smith, Como, Ill.	1
Frederick Post, Como, Ill.	1
O. O. Ticknor, Conneautville, O.	3
Smith & Luddington, Beaver Dam, Wis. ...	3
Thomas R. Merritt, St. Catharines, C.W. ...	2
H. A. Hayden & Co., Jackson, Mich.	2
Davenport & Beardsley, Elkhart, Ind. ...	1
Hendrice, Steward & Pierce, Broadh'd, W.3	
J. A. Brink, Greenleaf, Wis.	1
Lester S. Nichols, Spencerport, N. Y.	3
Norman Blodget, Clarkson, N. Y.	3
F. W. Delorme, Theresa, Wis.	1
C. H. Potter, Brantford, C. W.	1
Jno. H. Shepper, Fulton, Iowa,	1
A. P. Fasset, Erie, Pa.	1
H. L. & W. C. Newman, Akron, N. Y.	3
Benj. Hess, Freeport, Ill.	2
Jacob Reigard, Freeport, Ill.	1
Gordon & Shaumbaugh, Glenwood, Iowa, ...	2
Wm. Reed, Sidney, Ohio,	2
Jas. B. Martin, Belvidere, Ill.	2
Geo. H. Rugg, Ottawa, Ill.	2
A. M. Greenlee, Crossingville, Pa.	1
H. C. Hitchcock, Cheektowaga, N. Y.	1
Julius Bennet, Marilla, N. Y.	1
Norris & Neelon, St. Catharines, C. W. ...	3
Ira Minnard, St. Charles, Ill.	1
David Barnes, Denver City, C. T.	1
N. Churchill, Monroe, Wis.	1
A. B. Judson, Mishawaka, Ind.	6
Eberhardt, Cass & Co., Mishawaka, Ind. ...	6
Samuel Anderson, Fairview, Pa.	1
E. S. Towne & Co., Batavia, Ill.	1
Lewis Arnett, Warren, Pa.	5
Gordon & Shaumbaugh, Clarendo, Iowa, ...	1
Ira Rix, Alexander, N. Y.	1

	No. Wheels.
Sam. G. Sherman, Girard, Pa.	1
Jno. Smart, North Prairie, Wis.	2
L. P. Sanger, Joliet, Ill.	1
Chicago Lumbering Co.	1
M. A. Halsted, Lowell, Ind.	1
J. McDowell, Lundys Lane, Pa.	1
Slauce & Hutt, Glenwood, Iowa,	1
Haltz & Ehrman, Galva, Ill.	1
Whitmore & Co., Denver, C. T.	2
Boyer & Van Frank, Bristol, Ind.	1
Chas. Mears, Chicago, Ill.	1
G. S. & J. Osborn, Vandalia, Mich.	3
W. A. Frederick, Belville, Wis.	1
Jas. McDonald, Girard, Pa.	1
G. Stansell, Pockagon, Mich.	2
Simon Alderson, Council Hill, Ill.	2
S. S. Brown, Saltillo, Mexico,	1
F. A. Price, Woodcock, Pa.	1
F. C. Patterson, Constantine, Mich.	1
H. H. Murphy, Logansport, Ind.	3
Dowdall, Harris & Co.,	1
S. R. Kirby,	1
Webster & Pray, Anoka, Minn.	1

	No. Wheels.
Wm. Notbohm, Golden Lake, Wis.	1
Reuben Hart, Hornellsville, N. Y.	1
Henry Gibson, Minneapolis, Minn.	2
Baier, Strait & Co., Jordan, Minn.	3
Alden Tunnel Co., Colorado, N. M.	1
F. Hall & Co., Albert Lee, Minn.	1
Fenton & Lucas, Cherry Creek, N. Y.	2
Thompson & Baker, St. Cloud, Minn.	1
Arnold & Sims, St. Cloud, Minn.	4
Griswold & Falconer, Kennedy, N. Y.	4
N. Rose, Belmont, N. Y.	1
W. H. Griffith, Jamestown, N. Y.	1
Weber & Voisinet, Elkhart, Ind.	3
Glover & Marsh,	1
John Reynolds, Salt River, Mich.	1
Egbert Hoag, Manchester, Ia.	1
J. L. & E. T. Archibald, Dundas, Minn.	1
Jno. Smart, Delafield, Wis.	1
O. Dillion, Marengo, Ia.	1
L. Gorton & Co., St. Cloud, Minn.	1
J. B. McDowall, McDowall, Pa.	2
C. Grosvenor, Cannon Falls, Minn.	1

CERTIFICATES.

MARENGO, Iowa, March 12th, 1864.

W. F. NOYE, Esq., Chicago, Ill.

Dear Sir:—Yours of the 3d instant received, and in reply to your inquiry about the Turbine Water Wheels you furnished us, we would say we find them in all respects fully equal to what you represented them to be, and more than coming up to our expectations. We believe they have all, if not more power than you told us; and although we have had as cold weather this winter as we ever have here, they have never been frozen up; and with back water to reduce our head to 20 inches, they continued to do very good work.

Our millwright has had an experience of from 35 to 40 years, and has seen in operation most all kinds of wheels, but none, he thinks, will compare with yours in most respects.

We would say also, in regard to the rest of our machinery furnished by you, that we find it complete, and perfectly adapted to the work required of it.

Yours, &c.,

CRENSHAW & HOPKINS.

I have just completed the erection of the Helena Water Mill, owned by Messrs. Crenshaw & Hopkins, who purchased their machinery of you; and would say that in an experience of thirty-five years as millwright, I have not seen a Water Wheel that will compare in most respects with those Turbine Water Wheels furnished by you for this mill. The balance of the machinery I found well fitted and complete in every respect.

GEORGE BEARDSHEAR,

Millwright.

MARENGO, March 12th, 1864.

ELKHART, Ind. Aug. 16, 1861.

JOHN T. NOYE, Buffalo.

We have been using your 3 ft. Center Vent Turbine Wheel six months, under 23 feet head, discharging 33 square inches of water, in place of Goodwin's Wheel, which we used four years. Your wheel works up to the guarantee, grinding sixteen bushels per hour, and will perform twice the labor with less water, of the Goodwin Wheel, and is not affected by back water.

DAVENPORT & BEARDSLEY.

CONNEAUTVILLE, Pa. Jan. 10, 1863.

J. T. NOYE, Esq.

Dear Sir—I have been in the lumber business for twenty years, and am now running one of the best saw-mills in the country (with single saw,) in which the power is supplied by one of your Improved Turbine Water Wheels, under twelve feet head, in place of an overshot taken out. The wheel is three feet in diameter, and uses about the same amount of water as the overshot.

Yours truly,

O. O. TICKNOR.

GREENLEAF, Minn., July 8th, 1865.

J. T. NOYE.

SIR:—We have just received a letter from a proprietor of a water power in this State, inquiring about our water wheel, which is fast becoming noted in this country. Every one who sees it run praises it highly. It fully equals our expectations in every particular, and is certainly the best I ever saw running.

We are grinding eight bushels *per* hour with about two feet head.

The plan of arranging the machinery in the mill is admired by all for its simplicity. We have the *best constructed* mill in the State.

Yours,

J. A. BRINK,

of Brink and King.

JACKSON, Mich., Oct. 13, 1862.

JOHN T. NOYE, Esq.

We are happy to say that the Wheels, so far as power is concerned, fully equal our expectations, grinding from 12 to 15 bushels per hour. We have been too busy to test the quantity of water used, but shall do so at our leisure, being satisfied that the amount will not materially vary from your table. We have used many Wheels, but none that, so far as we tried them, give as favorable results. The stone we have not yet started, but it is admired by our millers, and we hope it will be as satisfactory as all other items of your bill.

Respectfully,

H. A. HAYDEN & CO.

VANDALIA, Mich., Oct., 25th, 1864.

JNO. T. NOYE, Esq.

DEAR SIR:—We are happy to say that with your Turbine Water Wheels (two 3 feet) under eleven (11) feet head, driving each a run of forty-two inch stones, and using from seventy-five to one hundred inches of water, we are grinding from twelve to fifteen bushels of wheat *per* hour. With the thirty inch wheel, five inch bucket, under the same head we drive one screen, one smut mill, four elevators (68 feet of belt each,) one stock elevator, (85 feet belt,) one custom reel, and two merchant reels, using only twenty inches of water.

They fully equal our expectations, giving fully the power you stated.

Yours, &c.,

G. S. & J. OSBORN.

WEIGHT OF ROUND ROLLED IRON,

From ¼ In. to 12 inches Diameter and 1 foot in Length.

Diameter in Inches	Weight in lbs.	Diameter in Inches	Weight in lbs.	Diameter in Inches	Weight in lbs.	Diameter in Inches	Weight in lbs.
1/16	.010	2 1/8	11.998	4 3/8	50.815	7 1/4	139.544
1/8	.041	2 1/4	13.440	4 1/2	53.760	7 1/2	149.328
3/16	.119	2 3/8	14.975	4 5/8	56.788	7 3/4	159.456
1/4	.165	2 1/2	16.668	4 3/4	59.900	8	169.856
3/8	.373	2 5/8	18.293	4 7/8	63.094	8 1/4	180.696
1/2	.663	2 3/4	20.076	5	66.752	8 1/2	191.808
5/8	1.043	2 7/8	21.944	5 1/8	69.731	8 3/4	203.260
3/4	1.493	3	23.888	5 1/4	73.172	9	215.040
7/8	2.032	3 1/8	25.926	5 3/8	76.700	9 1/4	227.152
1	2.654	3 1/4	28.040	5 1/2	80.304	9 1/2	239.600
1 1/8	3.360	3 3/8	30.240	5 5/8	84.001	9 3/4	252.376
1 1/4	4.172	3 1/2	32.512	5 3/4	87.776	10	266.288
1 3/8	5.019	3 5/8	34.886	5 7/8	91.634	10 1/4	278.924
1 1/2	5.972	3 3/4	37.332	6	95.552	10 1/2	292.688
1 5/8	7.010	3 7/8	39.864	6 1/4	103.704	10 3/4	306.800
1 3/4	8.128	4	42.464	6 1/2	112.160	11	321.216
1 7/8	9.333	4 1/8	45.174	6 3/4	120.960	11 1/4	336.004
2	10.616	4 1/4	47.952	7	130.048	11 1/2	351.104
						11 3/4	366.536
						12	382.208

WEIGHT OF SQUARE ROLLED IRON,

From ¼ inch to 12 inches, and one foot in Length.

Size in Inches.	Weight in lbs.	Size in Inches.	Weight in lbs.	Size in Inches.	Weight in lbs.	Size in Inches.	Weight in lbs.
1/16	.013	2 1/4	17.112	4 5/8	72.305	8	216.336
1/8	.053	2 3/8	19.066	4 3/4	76.264	8 1/4	230.068
3/16	.118	2 1/2	21.120	4 7/8	80.333	8 1/2	244.220
1/4	.211	2 5/8	23.292	5	84.480	8 3/4	258.800
3/8	.475	2 3/4	25.560	5 1/8	88.784	9	273.792
1/2	.845	2 7/8	27.939	5 1/4	93.168	9 1/4	289.220
5/8	1.320	3	30.416	5 3/8	97.657	9 1/2	305.056
3/4	1.901	3 1/8	33.010	5 1/2	102.240	9 3/4	321.332
7/8	2.588	3 1/4	35.704	5 5/8	106.953	10	337.920
1	3.380	3 3/8	38.503	5 3/4	111.756	10 1/4	355.136
1 1/8	4.278	3 1/2	41.408	5 7/8	116.671	10 1/2	372.672
1 1/4	5.280	3 5/8	44.418	6	121.664	10 3/4	390.628
1 3/8	6.390	3 3/4	47.534	6 1/4	132.040	11	408.960
1 1/2	7.604	3 7/8	50.756	6 1/2	142.816	11 1/4	427.812
1 5/8	8.926	4	54.084	6 3/4	154.012	11 1/2	447.024
1 3/4	10.352	4 1/8	57.517	7	165.632	11 3/4	466.684
1 7/8	11.883	4 1/4	61.055	7 1/4	177.672	12	486.656
2	13.520	4 3/8	64.700	7 1/2	190.136		
	15.263	4 1/2	68.448	7 3/4	203.024		

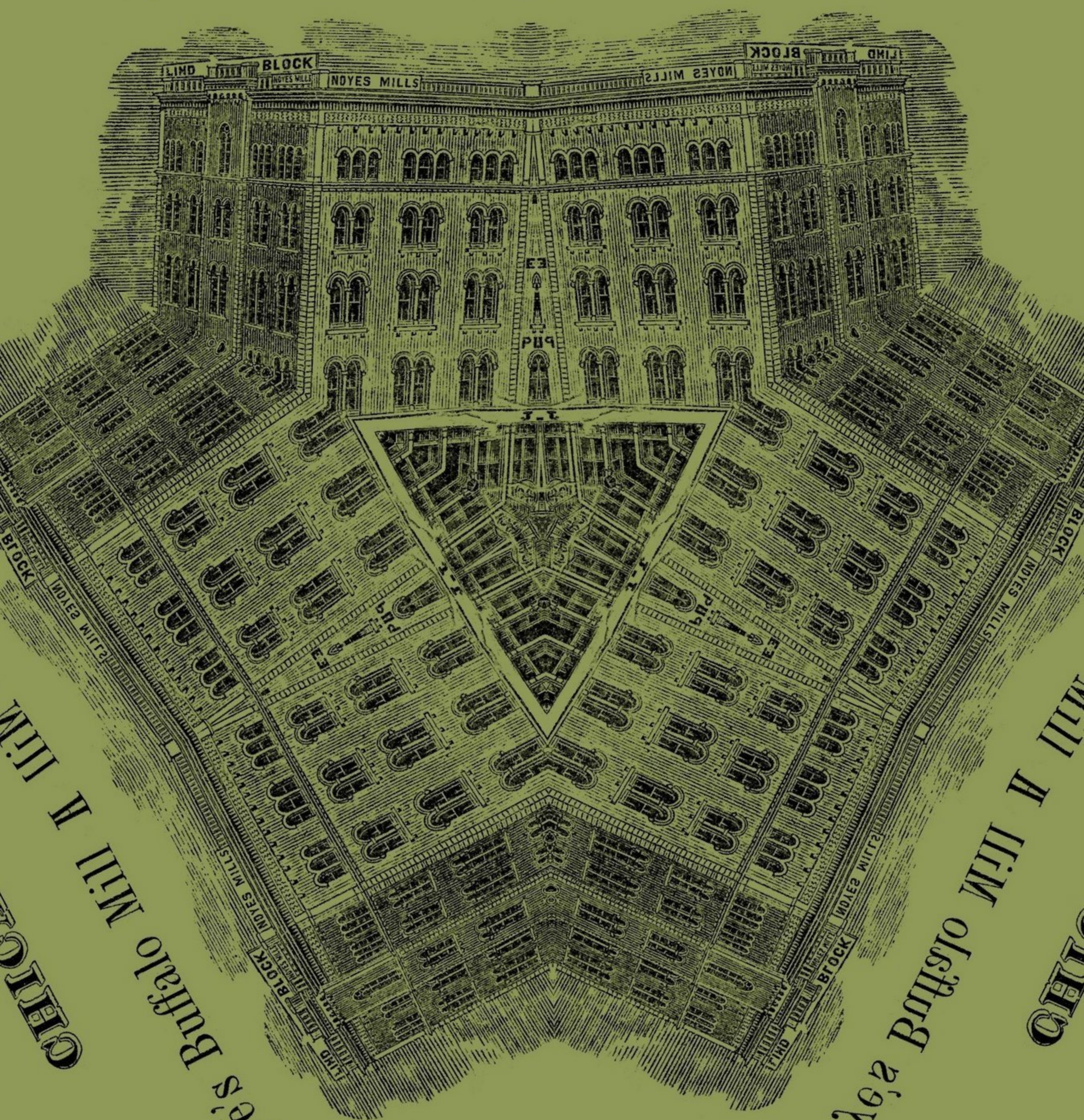
TABLE OF HORSE POWER AND REVOLUTIONS OF CENTRE VENT TURBINE WATER WHEEL,
Manufactured at NOYES' Buffalo Mill Furnishing Establishment.

Fractions are expressed in decimals.

Head of water in ft.	Horse Power of 2 1-2 ft. wheel, with 70 in. of water.	Revolutions per minute while at labor.	Horse Power of 3 ft. wheel with 100 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 3 1-2 ft. wheel with 150 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 4 ft. wheel with 200 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 4 1-2 ft. wheel with 250 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 5 ft. wheel with 300 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 5 1-2 ft. wheel with 350 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 6 ft. wheel with 400 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 7 ft. wheel with 500 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 8 ft. wheel with 600 in. of water.	Revolutions pr. minute while at labor.	Horse Power of 9 ft. wheel with 800 in. of water.	Revolutions pr. minute while at labor.
1	.33	37.8	.47	31.0	.70	27.2	.94	23.6	1.32	21.0	1.79	18.9	2.35	17.17	2.84	15.5	3.76	13.7	2.84	15.5	8.76	13.7
2	.57	53.3	1.32	44.5	1.95	37.8	2.66	33.3	3.73	29.4	4.80	26.7	6.60	24.03	7.99	22.2	10.56	19.0	7.99	22.2	10.56	19.0
3	1.68	65.4	2.30	54.6	3.67	47.1	4.60	41.4	6.88	36.4	8.28	33.2	11.50	29.9	13.80	27.0	18.40	23.4	13.80	27.0	18.40	23.4
4	2.65	75.5	3.79	62.6	5.62	54.5	7.58	45.8	10.01	42.1	13.64	37.9	18.95	34.2	22.94	31.0	30.32	26.0	22.94	31.0	30.32	26.0
5	3.70	84.3	5.29	70.0	7.88	60.1	10.58	52.0	14.79	46.9	19.04	42.2	26.45	38.00	31.74	34.9	42.32	30.0	31.74	34.9	42.32	30.0
6	4.83	92.2	6.91	77.1	10.35	65.7	13.92	57.8	19.42	50.8	23.07	46.2	34.56	41.6	41.46	38.5	55.28	33.1	41.46	38.5	55.28	33.1
7	6.13	99.8	8.76	83.3	13.12	71.3	17.52	62.5	24.52	55.1	31.63	50.0	43.80	45.0	52.56	41.7	70.08	35.6	52.56	41.7	70.08	35.6
8	7.49	106.6	10.70	89.0	15.97	76.2	21.40	66.8	29.93	59.3	38.52	53.4	53.50	48.1	64.20	44.5	85.60	37.5	64.20	44.5	85.60	37.5
9	8.96	112.4	12.73	94.8	18.12	80.2	25.56	70.6	35.82	62.6	46.00	56.2	63.90	50.6	76.68	47.4	102.24	40.0	76.68	47.4	102.24	40.0
10	10.74	119.0	14.97	99.8	22.42	85.56	29.94	75.0	41.96	67.5	53.89	59.8	74.85	53.9	89.82	49.8	119.76	42.6	89.82	49.8	119.76	42.6
11	12.08	125.1	17.27	104.5	25.80	89.2	34.54	78.4	48.31	69.4	62.17	62.7	86.35	56.5	103.62	52.3	138.16	44.7	103.62	52.3	138.16	44.7
12	13.77	130.8	19.68	109.3	29.47	93.6	39.36	81.9	55.09	72.8	70.84	65.5	98.40	59.00	118.08	54.5	157.44	46.9	118.08	54.5	157.44	46.9
13	15.28	135.7	21.83	113.7	33.22	97.3	43.66	85.2	62.10	75.7	78.58	68.2	109.15	61.4	130.98	56.7	174.64	48.6	130.98	56.7	174.64	48.6
14	17.36	141.3	24.80	118.1	37.20	101.0	49.66	88.6	69.44	78.1	89.28	70.9	124.00	63.9	148.80	58.9	200.40	50.5	148.80	58.9	200.40	50.5
15	19.25	146.1	27.50	122.2	41.25	104.7	55.00	91.6	77.03	81.2	99.00	73.3	137.50	66.0	165.00	61.1	220.00	52.9	165.00	61.1	220.00	52.9
16	21.20	151.2	30.29	126.3	45.45	107.8	60.58	94.1	84.93	84.1	109.04	75.8	151.45	68.3	181.74	63.1	242.32	53.9	181.74	63.1	242.32	53.9
17	23.21	155.7	33.17	130.1	48.45	110.9	66.34	97.5	90.46	86.7	119.41	78.9	165.85	71.1	198.02	65.0	265.36	55.5	198.02	65.0	265.36	55.5
18	25.30	160.3	36.15	133.9	53.13	114.7	72.30	100.3	99.34	89.2	130.14	80.3	180.75	72.0	216.90	66.9	286.20	57.2	216.90	66.9	286.20	57.2
19	27.41	164.4	39.17	137.3	58.20	117.1	78.34	103.0	109.68	91.5	141.01	82.4	195.85	74.2	235.00	68.6	318.36	58.7	235.00	68.6	318.36	58.7
20	29.45	168.6	42.07	141.1	63.52	120.9	84.14	105.9	118.64	94.1	151.45	84.7	210.35	76.3	252.42	70.4	336.56	60.9	252.42	70.4	336.56	60.9
21	31.50	174.3	45.05	144.6	68.32	124.0	90.75	107.51	127.63	96.3	163.50	87.4	225.25	78.7								
22	34.19	177.7	48.90	148.1	73.27	126.5	97.80	111.12	136.92	98.7	176.04	89.0	244.50	80.1								
23	36.51	181.5	52.21	151.2	78.30	129.5	104.25	113.51	146.20	100.8	187.92	90.8	261.05	81.8								
24	38.89	185.3	55.57	154.3	83.32	131.0	111.00	115.85	155.74	102.9	198.36	92.6	277.85	83.7								
25	41.45	190.7	59.05	157.9	88.80	135.1	118.40	117.46	165.93	105.2	212.58	95.3	295.25	85.8								
26	43.87	192.9	62.70	160.5	94.05	137.6	125.40	120.60	175.62	107.1	225.72	96.4	313.50	86.7								
27	46.48	196.7	66.37	163.68	99.60	140.1	132.80	122.97	185.96	109.3	238.93	98.3	331.85	88.5								
28	49.14	199.6	70.20	166.7	107.80	143.2	142.40	125.33	199.48	111.2	252.70	99.8	351.00	89.9								
29	51.65	203.9	73.87	169.8	117.80	145.8	147.75	127.47	207.05	113.2	265.33	101.9	369.35	91.8								
30	54.33	207.3	77.62	174.3	127.80	147.5	152.80	129.60	217.37	115.1	279.43	103.1	388.10	92.9								

CHICAGO

Noye's Buffalo Mill A Mill of 2000



Noye's Buffalo Mill A Mill of 2000

Noye's Buffalo Mill A Mill of 2000





Catalogue des
N° 100

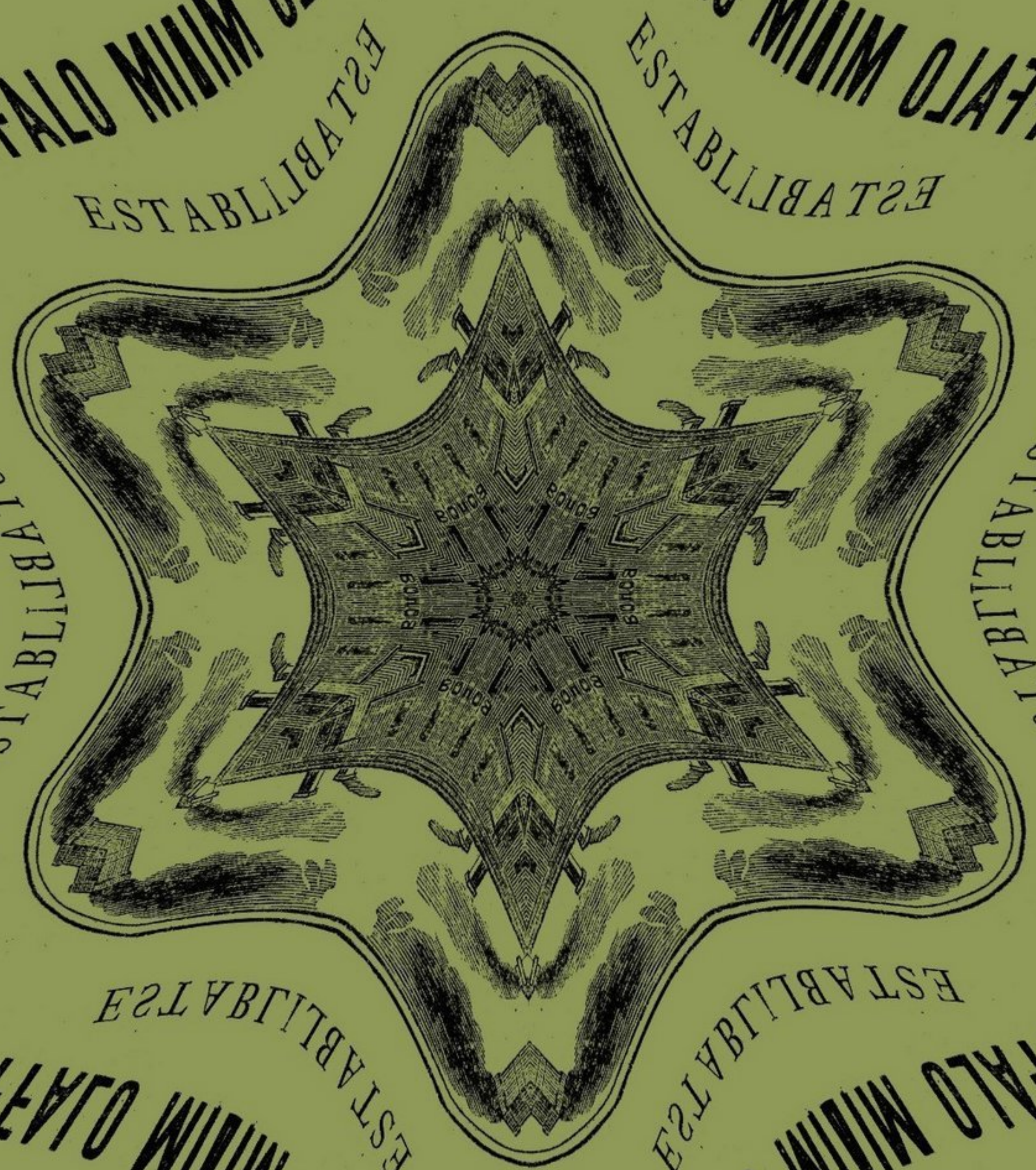
BUFFALO MINIM OIA77UB

ESTABLISHED

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